

Potential Flow Forces and Moments from Selected Ship Flow Codes in a Set of Numerical Experiments

Appendix Q — Minimum and Maximum Plots for 0-DOF Motion of Model 5613 in Waves

| Report Documentation Page | | | Form Approved OMB No. 0704-0188 | | |
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| 1. REPORT DATE 01 MAY 2008 | | 2. REPORT TYPE N/A | | 3. DATES COVERED - | |
| 4. TITLE AND SUBTITLE Potential Flow Forces and Moments from Selected Ship Flow Codes in a Set of Numerical Experiments Appendix Q Minimum and Maximum Plots for 0-DOF Motion of Model 5613 in Waves | | | 5a. CONTRACT NUMBER | | |
| | | | 5b. GRANT NUMBER | | |
| | | | 5c. PROGRAM ELEMENT NUMBER | | |
| 6. AUTHOR(S) | | | 5d. PROJECT NUMBER | | |
| | | | 5e. TASK NUMBER | | |
| | | | 5f. WORK UNIT NUMBER | | |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Surface Warfare Center Carderock Division 9500 Macarthur Boulevard West Bethesda, MD 20817-5700 | | | 8. PERFORMING ORGANIZATION REPORT NUMBER | | |
| 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) | | | 10. SPONSOR/MONITOR'S ACRONYM(S) | | |
| | | | 11. SPONSOR/MONITOR'S REPORT NUMBER(S) | | |
| 12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited | | | | | |
| 13. SUPPLEMENTARY NOTES See also ADM002134. Potential Flow Forces and Moments from Selected Ship Flow Codes in a Set of Numerical Experiments | | | | | |
| 14. ABSTRACT | | | | | |
| 15. SUBJECT TERMS | | | | | |
| 16. SECURITY CLASSIFICATION OF: | | | 17. LIMITATION OF ABSTRACT UU | 18. NUMBER OF PAGES 1152 | 19a. NAME OF RESPONSIBLE PERSON |
| a. REPORT unclassified | b. ABSTRACT unclassified | c. THIS PAGE unclassified | | | |

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- Q-79. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-463
- Q-80. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-468
- Q-81. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-473

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- Q-82. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-478
- Q-83. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-483
- Q-84. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-487
- Q-85. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-491
- Q-86. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-495
- Q-87. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-499
- Q-88. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-503
- Q-89. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-507
- Q-90. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-511
- Q-91. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-515
- Q-92. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-519
- Q-93. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-523
- Q-94. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-527
- Q-95. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. Q-531

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| Q-96. | Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-535 |
| Q-97. | Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-539 |
| Q-98. | Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-543 |
| Q-99. | Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-547 |
| Q-100. | Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-551 |
| Q-101. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-555 |
| Q-102. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-560 |
| Q-103. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-565 |
| Q-104. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-570 |
| Q-105. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-575 |
| Q-106. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-580 |
| Q-107. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-585 |
| Q-108. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-590 |
| Q-109. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-595 |

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| Q-110. | Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-600 |
| Q-111. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-605 |
| Q-112. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-610 |
| Q-113. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-615 |
| Q-114. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-620 |
| Q-115. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-624 |
| Q-116. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-628 |
| Q-117. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-633 |
| Q-118. | Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-637 |
| Q-119. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-641 |
| Q-120. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-645 |
| Q-121. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-650 |
| Q-122. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-654 |
| Q-123. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-658 |

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| Q-124. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-662 |
| Q-125. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-666 |
| Q-126. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-670 |
| Q-127. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-674 |
| Q-128. | Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-678 |
| Q-129. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-682 |
| Q-130. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-687 |
| Q-131. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-692 |
| Q-132. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-697 |
| Q-133. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-702 |
| Q-134. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-707 |
| Q-135. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-712 |
| Q-136. | Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-717 |
| Q-137. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-722 |

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| Q-138. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-727 |
| Q-139. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-732 |
| Q-140. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-737 |
| Q-141. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-742 |
| Q-142. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-747 |
| Q-143. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-752 |
| Q-144. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-757 |
| Q-145. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-762 |
| Q-146. | Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-767 |
| Q-147. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-772 |
| Q-148. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-776 |
| Q-149. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-780 |
| Q-150. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-784 |
| Q-151. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-788 |

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| Q-152. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-792 |
| Q-153. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-796 |
| Q-154. | Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-800 |
| Q-155. | Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-804 |
| Q-156. | Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-809 |
| Q-157. | Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-814 |
| Q-158. | Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-819 |
| Q-159. | Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-824 |
| Q-160. | Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m. | Q-829 |
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| Q-520. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-405 |
| Q-521. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-407 |
| Q-522. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-407 |
| Q-523. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-408 |
| Q-524. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-408 |
| Q-525. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-409 |
| Q-526. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-409 |
| Q-527. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-409 |

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| Q-528. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-410 |
| Q-529. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-412 |
| Q-530. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-412 |
| Q-531. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-412 |
| Q-532. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-413 |
| Q-533. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-413 |
| Q-534. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-413 |
| Q-535. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-414 |
| Q-536. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-414 |
| Q-537. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-416 |
| Q-538. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-416 |
| Q-539. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-416 |
| Q-540. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-417 |
| Q-541. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-417 |
| Q-542. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-417 |
| Q-543. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-418 |
| Q-544. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-418 |
| Q-545. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-420 |
| Q-546. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-420 |

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| Q-547. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-420 |
| Q-548. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . | Q-421 |
| Q-549. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . | Q-421 |
| Q-550. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . | Q-421 |
| Q-551. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . | Q-422 |
| Q-552. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . | Q-422 |
| Q-553. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . | Q-424 |
| Q-554. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . | Q-424 |
| Q-555. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-424 |
| Q-556. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-425 |
| Q-557. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-425 |
| Q-558. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-425 |
| Q-559. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-426 |
| Q-560. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-426 |
| Q-561. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-428 |
| Q-562. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-428 |
| Q-563. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-428 |
| Q-564. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-429 |
| Q-565. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-429 |

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| Q-566. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-429 |
| Q-567. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-430 |
| Q-568. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-430 |
| Q-569. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-432 |
| Q-570. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-432 |
| Q-571. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-432 |
| Q-572. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-433 |
| Q-573. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-433 |
| Q-574. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-433 |
| Q-575. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-434 |
| Q-576. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-434 |
| Q-577. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-436 |
| Q-578. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-436 |
| Q-579. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-436 |
| Q-580. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-437 |
| Q-581. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-437 |
| Q-582. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-437 |
| Q-583. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-438 |
| Q-584. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-438 |

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| Q-585. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-440 |
| Q-586. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-440 |
| Q-587. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-440 |
| Q-588. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-441 |
| Q-589. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-441 |
| Q-590. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-441 |
| Q-591. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-442 |
| Q-592. | Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-442 |
| Q-593. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-444 |
| Q-594. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-444 |
| Q-595. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-445 |
| Q-596. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-445 |
| Q-597. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-446 |
| Q-598. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-446 |
| Q-599. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-447 |
| Q-600. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-447 |
| Q-601. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-449 |
| Q-602. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-449 |
| Q-603. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-450 |

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| Q-604. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-450 |
| Q-605. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-451 |
| Q-606. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-451 |
| Q-607. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-452 |
| Q-608. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-452 |
| Q-609. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-454 |
| Q-610. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-454 |
| Q-611. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-455 |
| Q-612. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-455 |
| Q-613. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-456 |
| Q-614. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-456 |
| Q-615. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-457 |
| Q-616. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . | Q-457 |
| Q-617. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-459 |
| Q-618. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-459 |
| Q-619. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-460 |
| Q-620. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-460 |
| Q-621. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-461 |
| Q-622. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . | Q-461 |

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| Q-623. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-462 |
| Q-624. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-462 |
| Q-625. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-464 |
| Q-626. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-464 |
| Q-627. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-465 |
| Q-628. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-465 |
| Q-629. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-466 |
| Q-630. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-466 |
| Q-631. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-467 |
| Q-632. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-467 |
| Q-633. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-469 |
| Q-634. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-469 |
| Q-635. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-470 |
| Q-636. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-470 |
| Q-637. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-471 |
| Q-638. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-471 |
| Q-639. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-472 |
| Q-640. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-472 |
| Q-641. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-474 |

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| Q-642. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-474 |
| Q-643. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-475 |
| Q-644. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-475 |
| Q-645. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-476 |
| Q-646. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-476 |
| Q-647. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-477 |
| Q-648. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-477 |
| Q-649. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-479 |
| Q-650. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-479 |
| Q-651. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-480 |
| Q-652. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-480 |
| Q-653. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-481 |
| Q-654. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-481 |
| Q-655. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-482 |
| Q-656. | Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-482 |
| Q-657. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-484 |
| Q-658. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-484 |
| Q-659. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-484 |
| Q-660. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-485 |

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| Q-661. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-485 |
| Q-662. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-485 |
| Q-663. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-486 |
| Q-664. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-486 |
| Q-665. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-488 |
| Q-666. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-488 |
| Q-667. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-488 |
| Q-668. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-489 |
| Q-669. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-489 |
| Q-670. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-489 |
| Q-671. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-490 |
| Q-672. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-490 |
| Q-673. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-492 |
| Q-674. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-492 |
| Q-675. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-493 |
| Q-676. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-493 |
| Q-677. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-493 |
| Q-678. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-494 |
| Q-679. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-494 |

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| Q-680. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . . | Q-494 |
| Q-681. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-496 |
| Q-682. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-496 |
| Q-683. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-496 |
| Q-684. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-497 |
| Q-685. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-497 |
| Q-686. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-497 |
| Q-687. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-498 |
| Q-688. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . . | Q-498 |
| Q-689. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-500 |
| Q-690. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-500 |
| Q-691. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-500 |
| Q-692. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-501 |
| Q-693. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-501 |
| Q-694. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-501 |
| Q-695. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-502 |
| Q-696. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . | Q-502 |
| Q-697. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . | Q-504 |
| Q-698. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . | Q-504 |

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| Q-699. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-504 |
| Q-700. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-505 |
| Q-701. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-505 |
| Q-702. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-505 |
| Q-703. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-506 |
| Q-704. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-506 |
| Q-705. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-508 |
| Q-706. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-508 |
| Q-707. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-508 |
| Q-708. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-509 |
| Q-709. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-509 |
| Q-710. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-509 |
| Q-711. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-510 |
| Q-712. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-510 |
| Q-713. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-512 |
| Q-714. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-512 |
| Q-715. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-513 |
| Q-716. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-513 |
| Q-717. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-513 |

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| Q-718. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-514 |
| Q-719. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-514 |
| Q-720. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-514 |
| Q-721. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-516 |
| Q-722. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-516 |
| Q-723. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-516 |
| Q-724. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-517 |
| Q-725. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-517 |
| Q-726. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-517 |
| Q-727. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-518 |
| Q-728. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-518 |
| Q-729. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-520 |
| Q-730. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-520 |
| Q-731. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-520 |
| Q-732. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-521 |
| Q-733. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-521 |
| Q-734. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-521 |
| Q-735. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-522 |
| Q-736. | Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-522 |

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| Q-737. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-524 |
| Q-738. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-524 |
| Q-739. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-524 |
| Q-740. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-525 |
| Q-741. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-525 |
| Q-742. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-525 |
| Q-743. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-526 |
| Q-744. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-526 |
| Q-745. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-528 |
| Q-746. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-528 |
| Q-747. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-528 |
| Q-748. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-529 |
| Q-749. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-529 |
| Q-750. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-529 |
| Q-751. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-530 |
| Q-752. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-530 |
| Q-753. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-532 |
| Q-754. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-532 |
| Q-755. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-532 |

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| Q-756. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-533 |
| Q-757. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-533 |
| Q-758. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-533 |
| Q-759. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-534 |
| Q-760. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-534 |
| Q-761. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-536 |
| Q-762. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-536 |
| Q-763. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-537 |
| Q-764. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-537 |
| Q-765. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-537 |
| Q-766. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-538 |
| Q-767. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-538 |
| Q-768. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-538 |
| Q-769. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-540 |
| Q-770. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-540 |
| Q-771. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-540 |
| Q-772. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-541 |
| Q-773. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-541 |
| Q-774. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-541 |

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| Q-775. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-542 |
| Q-776. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-542 |
| Q-777. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-544 |
| Q-778. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-544 |
| Q-779. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-544 |
| Q-780. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-545 |
| Q-781. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-545 |
| Q-782. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-545 |
| Q-783. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-546 |
| Q-784. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-546 |
| Q-785. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-548 |
| Q-786. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-548 |
| Q-787. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-548 |
| Q-788. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-549 |
| Q-789. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-549 |
| Q-790. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-549 |
| Q-791. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-550 |
| Q-792. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-550 |
| Q-793. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-552 |

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| Q-794. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-552 |
| Q-795. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-552 |
| Q-796. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-553 |
| Q-797. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-553 |
| Q-798. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-553 |
| Q-799. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-554 |
| Q-800. | Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-554 |
| Q-801. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-556 |
| Q-802. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-556 |
| Q-803. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-557 |
| Q-804. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-557 |
| Q-805. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-558 |
| Q-806. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-558 |
| Q-807. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-559 |
| Q-808. | Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-559 |
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| Q-897. | Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-616 |
| Q-898. | Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-616 |
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| Q-902. | Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-618 |
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- Q-1004. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-672
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| Q-1006. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-672 |
| Q-1007. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . . | Q-673 |
| Q-1008. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-673 |
| Q-1009. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-675 |
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| Q-1011. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-675 |
| Q-1012. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-676 |
| Q-1013. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-676 |
| Q-1014. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-677 |
| Q-1015. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . . | Q-677 |
| Q-1016. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-677 |
| Q-1017. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-679 |
| Q-1018. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-679 |
| Q-1019. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-679 |
| Q-1020. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-680 |
| Q-1021. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-680 |
| Q-1022. | Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-680 |
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| Q-1025. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-683 |

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| Q-1026. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-683 |
| Q-1027. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-684 |
| Q-1028. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-684 |
| Q-1029. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-685 |
| Q-1030. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-685 |
| Q-1031. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-686 |
| Q-1032. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-686 |
| Q-1033. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-688 |
| Q-1034. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-688 |
| Q-1035. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-689 |
| Q-1036. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-689 |
| Q-1037. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-690 |
| Q-1038. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-690 |
| Q-1039. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-691 |
| Q-1040. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-691 |
| Q-1041. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-693 |
| Q-1042. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-693 |
| Q-1043. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-694 |
| Q-1044. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-694 |
| Q-1045. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-695 |

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| Q-1046. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-695 |
| Q-1047. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-696 |
| Q-1048. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-696 |
| Q-1049. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-698 |
| Q-1050. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-698 |
| Q-1051. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-699 |
| Q-1052. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-699 |
| Q-1053. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-700 |
| Q-1054. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-700 |
| Q-1055. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-701 |
| Q-1056. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-701 |
| Q-1057. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-703 |
| Q-1058. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-703 |
| Q-1059. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-704 |
| Q-1060. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-704 |
| Q-1061. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-705 |
| Q-1062. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-705 |
| Q-1063. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-706 |
| Q-1064. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-706 |
| Q-1065. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-708 |

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- Q-1066. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-708
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- Q-1068. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-709
- Q-1069. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-710
- Q-1070. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-710
- Q-1071. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-711
- Q-1072. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-711
- Q-1073. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-713
- Q-1074. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-713
- Q-1075. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-714
- Q-1076. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-714
- Q-1077. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-715
- Q-1078. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-715
- Q-1079. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-716
- Q-1080. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-716
- Q-1081. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-718
- Q-1082. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-718
- Q-1083. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-719
- Q-1084. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-719
- Q-1085. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-720

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| Q-1086. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-720 |
| Q-1087. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-721 |
| Q-1088. | Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-721 |
| Q-1089. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-723 |
| Q-1090. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-723 |
| Q-1091. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-724 |
| Q-1092. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-724 |
| Q-1093. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-725 |
| Q-1094. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-725 |
| Q-1095. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-726 |
| Q-1096. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-726 |
| Q-1097. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-728 |
| Q-1098. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-728 |
| Q-1099. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-729 |
| Q-1100. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-729 |
| Q-1101. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-730 |
| Q-1102. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-730 |
| Q-1103. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-731 |
| Q-1104. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-731 |
| Q-1105. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-733 |

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- Q-1106. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-733
- Q-1107. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-734
- Q-1108. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-734
- Q-1109. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-735
- Q-1110. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-735
- Q-1111. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) Q-736
- Q-1112. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-736
- Q-1113. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-738
- Q-1114. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-738
- Q-1115. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-739
- Q-1116. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-739
- Q-1117. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-740
- Q-1118. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-740
- Q-1119. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) Q-741
- Q-1120. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-741
- Q-1121. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-743
- Q-1122. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-743
- Q-1123. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-744
- Q-1124. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-744
- Q-1125. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-745

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| Q-1126. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-745 |
| Q-1127. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-746 |
| Q-1128. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-746 |
| Q-1129. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-748 |
| Q-1130. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-748 |
| Q-1131. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-749 |
| Q-1132. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-749 |
| Q-1133. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-750 |
| Q-1134. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-750 |
| Q-1135. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-751 |
| Q-1136. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-751 |
| Q-1137. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-753 |
| Q-1138. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-753 |
| Q-1139. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-754 |
| Q-1140. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-754 |
| Q-1141. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-755 |
| Q-1142. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-755 |
| Q-1143. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-756 |
| Q-1144. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-756 |
| Q-1145. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-758 |

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- Q-1146. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-758
- Q-1147. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-759
- Q-1148. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-759
- Q-1149. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-760
- Q-1150. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-760
- Q-1151. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-761
- Q-1152. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-761
- Q-1153. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-763
- Q-1154. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-763
- Q-1155. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-764
- Q-1156. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-764
- Q-1157. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-765
- Q-1158. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-765
- Q-1159. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-766
- Q-1160. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-766
- Q-1161. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-768
- Q-1162. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-768
- Q-1163. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-769
- Q-1164. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-769
- Q-1165. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-770

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| Q-1166. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-770 |
| Q-1167. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-771 |
| Q-1168. | Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-771 |
| Q-1169. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-773 |
| Q-1170. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-773 |
| Q-1171. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-774 |
| Q-1172. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-774 |
| Q-1173. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-774 |
| Q-1174. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-775 |
| Q-1175. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-775 |
| Q-1176. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-775 |
| Q-1177. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-777 |
| Q-1178. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-777 |
| Q-1179. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-777 |
| Q-1180. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-778 |
| Q-1181. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-778 |
| Q-1182. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-778 |
| Q-1183. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-779 |
| Q-1184. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-779 |

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| Q-1185. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-781 |
| Q-1186. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-781 |
| Q-1187. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-781 |
| Q-1188. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-782 |
| Q-1189. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-782 |
| Q-1190. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-782 |
| Q-1191. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-783 |
| Q-1192. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-783 |
| Q-1193. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-785 |
| Q-1194. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-785 |
| Q-1195. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-786 |
| Q-1196. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-786 |
| Q-1197. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-786 |
| Q-1198. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-787 |
| Q-1199. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-787 |
| Q-1200. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-787 |
| Q-1201. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-789 |
| Q-1202. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-789 |
| Q-1203. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-790 |

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| Q-1204. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-790 |
| Q-1205. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-790 |
| Q-1206. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-791 |
| Q-1207. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-791 |
| Q-1208. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-791 |
| Q-1209. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) | Q-793 |
| Q-1210. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) | Q-793 |
| Q-1211. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) | Q-793 |
| Q-1212. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-794 |
| Q-1213. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-794 |
| Q-1214. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-794 |
| Q-1215. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-795 |
| Q-1216. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-795 |
| Q-1217. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 135^\circ$, $F_n = 0.3$) | Q-797 |
| Q-1218. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 135^\circ$, $F_n = 0.3$) | Q-797 |
| Q-1219. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 135^\circ$, $F_n = 0.3$) | Q-797 |
| Q-1220. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-798 |
| Q-1221. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-798 |
| Q-1222. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154 \text{ m}$, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-798 |

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| Q-1223. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-799 |
| Q-1224. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-799 |
| Q-1225. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-801 |
| Q-1226. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-801 |
| Q-1227. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-802 |
| Q-1228. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-802 |
| Q-1229. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-802 |
| Q-1230. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-803 |
| Q-1231. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-803 |
| Q-1232. | Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-803 |
| Q-1233. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-805 |
| Q-1234. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-805 |
| Q-1235. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-806 |
| Q-1236. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-806 |
| Q-1237. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-807 |
| Q-1238. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-807 |
| Q-1239. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-808 |
| Q-1240. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) | Q-808 |
| Q-1241. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-810 |

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| Q-1242. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-810 |
| Q-1243. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-811 |
| Q-1244. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-811 |
| Q-1245. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-812 |
| Q-1246. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-812 |
| Q-1247. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-813 |
| Q-1248. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-813 |
| Q-1249. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-815 |
| Q-1250. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-815 |
| Q-1251. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-816 |
| Q-1252. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-816 |
| Q-1253. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-817 |
| Q-1254. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-817 |
| Q-1255. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-818 |
| Q-1256. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-818 |
| Q-1257. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-820 |
| Q-1258. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-820 |
| Q-1259. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-821 |
| Q-1260. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-821 |

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| Q-1261. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-822 |
| Q-1262. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-822 |
| Q-1263. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-823 |
| Q-1264. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-823 |
| Q-1265. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-825 |
| Q-1266. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-825 |
| Q-1267. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-826 |
| Q-1268. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-826 |
| Q-1269. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-827 |
| Q-1270. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-827 |
| Q-1271. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-828 |
| Q-1272. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-828 |
| Q-1273. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-830 |
| Q-1274. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-830 |
| Q-1275. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-831 |
| Q-1276. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-831 |
| Q-1277. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-832 |
| Q-1278. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-832 |
| Q-1279. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) | Q-833 |

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| Q-1280. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . | Q-833 |
| Q-1281. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-835 |
| Q-1282. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-835 |
| Q-1283. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-836 |
| Q-1284. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-836 |
| Q-1285. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-837 |
| Q-1286. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-837 |
| Q-1287. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-838 |
| Q-1288. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . | Q-838 |
| Q-1289. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-840 |
| Q-1290. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-840 |
| Q-1291. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-841 |
| Q-1292. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-841 |
| Q-1293. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-842 |
| Q-1294. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-842 |
| Q-1295. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-843 |
| Q-1296. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-843 |
| Q-1297. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . | Q-845 |
| Q-1298. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . | Q-845 |

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| Q-1299. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-846 |
| Q-1300. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-846 |
| Q-1301. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-847 |
| Q-1302. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-847 |
| Q-1303. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-848 |
| Q-1304. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-848 |
| Q-1305. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-850 |
| Q-1306. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-850 |
| Q-1307. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-851 |
| Q-1308. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-851 |
| Q-1309. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-852 |
| Q-1310. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-852 |
| Q-1311. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-853 |
| Q-1312. | Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-853 |
| Q-1313. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-855 |
| Q-1314. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-855 |
| Q-1315. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-856 |
| Q-1316. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-856 |
| Q-1317. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-857 |

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| Q-1318. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-857 |
| Q-1319. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-857 |
| Q-1320. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-858 |
| Q-1321. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-860 |
| Q-1322. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-860 |
| Q-1323. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-861 |
| Q-1324. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-861 |
| Q-1325. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-862 |
| Q-1326. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-862 |
| Q-1327. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-863 |
| Q-1328. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-863 |
| Q-1329. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-865 |
| Q-1330. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-865 |
| Q-1331. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-866 |
| Q-1332. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-866 |
| Q-1333. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-867 |
| Q-1334. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-867 |
| Q-1335. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-867 |
| Q-1336. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . | Q-868 |

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| Q-1337. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-870 |
| Q-1338. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-870 |
| Q-1339. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-871 |
| Q-1340. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-871 |
| Q-1341. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-871 |
| Q-1342. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-872 |
| Q-1343. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-872 |
| Q-1344. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) | Q-872 |
| Q-1345. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-874 |
| Q-1346. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-874 |
| Q-1347. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-875 |
| Q-1348. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-875 |
| Q-1349. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-876 |
| Q-1350. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-876 |
| Q-1351. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-876 |
| Q-1352. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-877 |
| Q-1353. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-879 |
| Q-1354. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-879 |
| Q-1355. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-880 |

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| Q-1356. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-880 |
| Q-1357. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-881 |
| Q-1358. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-881 |
| Q-1359. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-882 |
| Q-1360. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . | Q-882 |
| Q-1361. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-884 |
| Q-1362. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-884 |
| Q-1363. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-885 |
| Q-1364. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-885 |
| Q-1365. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-886 |
| Q-1366. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-886 |
| Q-1367. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-886 |
| Q-1368. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . | Q-887 |
| Q-1369. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-889 |
| Q-1370. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-889 |
| Q-1371. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-890 |
| Q-1372. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-890 |
| Q-1373. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-890 |
| Q-1374. | Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . | Q-891 |

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- Q-1375. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . . . Q-891
- Q-1376. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . . . Q-891
- Q-1377. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-893
- Q-1378. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-893
- Q-1379. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-893
- Q-1380. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-894
- Q-1381. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-894
- Q-1382. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-895
- Q-1383. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-895
- Q-1384. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . . Q-896
- Q-1385. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-898
- Q-1386. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-898
- Q-1387. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-898
- Q-1388. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-899
- Q-1389. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-899
- Q-1390. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-900
- Q-1391. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-900
- Q-1392. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . . Q-901
- Q-1393. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . . Q-903
- Q-1394. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . . Q-903

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- Q-1395. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-903
- Q-1396. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-904
- Q-1397. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-904
- Q-1398. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-904
- Q-1399. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-905
- Q-1400. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-905
- Q-1401. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-907
- Q-1402. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-907
- Q-1403. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-907
- Q-1404. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-908
- Q-1405. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-908
- Q-1406. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-908
- Q-1407. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-909
- Q-1408. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-909
- Q-1409. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-911
- Q-1410. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-911
- Q-1411. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-911
- Q-1412. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-912
- Q-1413. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-912
- Q-1414. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-912

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- Q-1415. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . Q-913
- Q-1416. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . . Q-913
- Q-1417. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-915
- Q-1418. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-915
- Q-1419. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-915
- Q-1420. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-916
- Q-1421. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-916
- Q-1422. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-917
- Q-1423. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-917
- Q-1424. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . . Q-918
- Q-1425. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-920
- Q-1426. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-920
- Q-1427. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-920
- Q-1428. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-921
- Q-1429. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-921
- Q-1430. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-922
- Q-1431. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-922
- Q-1432. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . . Q-923
- Q-1433. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . . Q-925
- Q-1434. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . . Q-925

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- Q-1435. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-926
- Q-1436. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-926
- Q-1437. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-926
- Q-1438. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-927
- Q-1439. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-927
- Q-1440. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-927
- Q-1441. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-929
- Q-1442. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-929
- Q-1443. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-929
- Q-1444. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-930
- Q-1445. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-930
- Q-1446. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-931
- Q-1447. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-931
- Q-1448. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-932
- Q-1449. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-934
- Q-1450. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-934
- Q-1451. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-934
- Q-1452. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-935
- Q-1453. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-935
- Q-1454. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-935

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- Q-1455. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . . Q-936
- Q-1456. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . . Q-936
- Q-1457. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-938
- Q-1458. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-938
- Q-1459. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-939
- Q-1460. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-939
- Q-1461. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-940
- Q-1462. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-940
- Q-1463. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-941
- Q-1464. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-941
- Q-1465. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-943
- Q-1466. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-943
- Q-1467. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-944
- Q-1468. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-944
- Q-1469. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-945
- Q-1470. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-945
- Q-1471. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-946
- Q-1472. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-946
- Q-1473. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-948
- Q-1474. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-948

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- Q-1475. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-949
- Q-1476. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-949
- Q-1477. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-950
- Q-1478. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-950
- Q-1479. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-951
- Q-1480. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-951
- Q-1481. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-953
- Q-1482. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-953
- Q-1483. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-954
- Q-1484. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-954
- Q-1485. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-955
- Q-1486. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-955
- Q-1487. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-956
- Q-1488. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-956
- Q-1489. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-958
- Q-1490. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-958
- Q-1491. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-959
- Q-1492. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-959
- Q-1493. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-960
- Q-1494. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-960

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- Q-1495. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-961
- Q-1496. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-961
- Q-1497. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-963
- Q-1498. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-963
- Q-1499. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-964
- Q-1500. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-964
- Q-1501. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-965
- Q-1502. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-965
- Q-1503. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-966
- Q-1504. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-966
- Q-1505. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-968
- Q-1506. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-968
- Q-1507. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-969
- Q-1508. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-969
- Q-1509. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-970
- Q-1510. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-970
- Q-1511. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-971
- Q-1512. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . . Q-971
- Q-1513. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . . Q-973
- Q-1514. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . . Q-973

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- Q-1515. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-974
- Q-1516. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-974
- Q-1517. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-975
- Q-1518. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-975
- Q-1519. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-976
- Q-1520. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-976
- Q-1521. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-978
- Q-1522. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-978
- Q-1523. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-978
- Q-1524. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-979
- Q-1525. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-979
- Q-1526. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-980
- Q-1527. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-980
- Q-1528. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$) . . Q-981
- Q-1529. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-983
- Q-1530. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-983
- Q-1531. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-983
- Q-1532. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-984
- Q-1533. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-984
- Q-1534. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-985

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- Q-1535. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-985
- Q-1536. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-986
- Q-1537. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-988
- Q-1538. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-988
- Q-1539. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-988
- Q-1540. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-989
- Q-1541. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-989
- Q-1542. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-990
- Q-1543. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-990
- Q-1544. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-991
- Q-1545. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-993
- Q-1546. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-993
- Q-1547. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-993
- Q-1548. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-994
- Q-1549. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-994
- Q-1550. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-995
- Q-1551. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-995
- Q-1552. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . . Q-996
- Q-1553. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-998
- Q-1554. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-998

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- Q-1555. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-998
- Q-1556. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-999
- Q-1557. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-999
- Q-1558. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-1000
- Q-1559. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-1000
- Q-1560. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . . Q-1001
- Q-1561. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1003
- Q-1562. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1003
- Q-1563. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1004
- Q-1564. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1004
- Q-1565. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1005
- Q-1566. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1005
- Q-1567. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1006
- Q-1568. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1006
- Q-1569. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1008
- Q-1570. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1008
- Q-1571. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1008
- Q-1572. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1009
- Q-1573. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1009
- Q-1574. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1010

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- Q-1575. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1010
- Q-1576. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1011
- Q-1577. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1013
- Q-1578. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1013
- Q-1579. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1013
- Q-1580. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1014
- Q-1581. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1014
- Q-1582. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1015
- Q-1583. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1015
- Q-1584. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1016
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- Q-1587. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1018
- Q-1588. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1019
- Q-1589. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1019
- Q-1590. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1020
- Q-1591. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1020
- Q-1592. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1021
- Q-1593. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1023
- Q-1594. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1023

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- Q-1595. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1023
- Q-1596. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1024
- Q-1597. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1024
- Q-1598. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1025
- Q-1599. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1025
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- Q-1602. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) Q-1028
- Q-1603. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) Q-1028
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- Q-1605. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) Q-1029
- Q-1606. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) Q-1030
- Q-1607. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) . . Q-1030
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- Q-1610. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) Q-1033
- Q-1611. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) Q-1033
- Q-1612. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$) Q-1034
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- Q-1614. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) Q-1035
- Q-1615. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-1035
- Q-1616. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) . . Q-1036
- Q-1617. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1038
- Q-1618. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1038
- Q-1619. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1038
- Q-1620. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1039
- Q-1621. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1039
- Q-1622. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1040
- Q-1623. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-1040
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- Q-1625. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1043
- Q-1626. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1043
- Q-1627. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1043
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| Q-1633. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1047 |
| Q-1634. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1047 |
| Q-1635. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1048 |
| Q-1636. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1048 |
| Q-1637. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1049 |
| Q-1638. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1049 |
| Q-1639. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1050 |
| Q-1640. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) | Q-1050 |
| Q-1641. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1052 |
| Q-1642. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1052 |
| Q-1643. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1052 |
| Q-1644. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1053 |
| Q-1645. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1053 |
| Q-1646. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1054 |
| Q-1647. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1054 |
| Q-1648. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1055 |
| Q-1649. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1057 |
| Q-1650. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1057 |
| Q-1651. | Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1057 |

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- Q-1652. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1058
- Q-1653. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1058
- Q-1654. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1059
- Q-1655. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1059
- Q-1656. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1060
- Q-1657. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1062
- Q-1658. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1062
- Q-1659. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1062
- Q-1660. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1063
- Q-1661. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1063
- Q-1662. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1063
- Q-1663. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1064
- Q-1664. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1064
- Q-1665. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . Q-1066
- Q-1666. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . Q-1066
- Q-1667. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) Q-1067
- Q-1668. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . Q-1067
- Q-1669. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . Q-1068
- Q-1670. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . Q-1068

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| Q-1671. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-1069 |
| Q-1672. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$) . . | Q-1069 |
| Q-1673. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1071 |
| Q-1674. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1071 |
| Q-1675. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1072 |
| Q-1676. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1072 |
| Q-1677. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1073 |
| Q-1678. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1073 |
| Q-1679. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-1074 |
| Q-1680. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) . . | Q-1074 |
| Q-1681. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1076 |
| Q-1682. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1076 |
| Q-1683. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1077 |
| Q-1684. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1077 |
| Q-1685. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1078 |
| Q-1686. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1078 |
| Q-1687. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-1079 |
| Q-1688. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) . . | Q-1079 |
| Q-1689. | Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-1081 |

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- Q-1690. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1081
- Q-1691. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1082
- Q-1692. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1082
- Q-1693. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1083
- Q-1694. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1083
- Q-1695. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-1084
- Q-1696. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-1084
- Q-1697. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1086
- Q-1698. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1086
- Q-1699. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1087
- Q-1700. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1087
- Q-1701. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1088
- Q-1702. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1088
- Q-1703. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-1089
- Q-1704. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-1089
- Q-1705. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . Q-1091
- Q-1706. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . Q-1091
- Q-1707. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) Q-1092
- Q-1708. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$) . Q-1092

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- Q-1709. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . Q-1093
- Q-1710. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . Q-1093
- Q-1711. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1094
- Q-1712. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$) . . Q-1094
- Q-1713. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1096
- Q-1714. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1096
- Q-1715. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1097
- Q-1716. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1097
- Q-1717. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1098
- Q-1718. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1098
- Q-1719. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1099
- Q-1720. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1099
- Q-1721. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-1101
- Q-1722. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-1101
- Q-1723. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-1102
- Q-1724. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-1102
- Q-1725. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-1103
- Q-1726. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) Q-1103
- Q-1727. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . Q-1104

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- Q-1728. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) . . . Q-1104
- Q-1729. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1106
- Q-1730. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1106
- Q-1731. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1107
- Q-1732. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1107
- Q-1733. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1108
- Q-1734. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) Q-1108
- Q-1735. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1109
- Q-1736. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) . Q-1109
- Q-1737. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1111
- Q-1738. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1111
- Q-1739. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1112
- Q-1740. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1112
- Q-1741. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1113
- Q-1742. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1113
- Q-1743. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1114
- Q-1744. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1114
- Q-1745. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) Q-1116
- Q-1746. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$) Q-1116

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| Q-1747. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1116 |
| Q-1748. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1117 |
| Q-1749. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1117 |
| Q-1750. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1118 |
| Q-1751. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1118 |
| Q-1752. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$) | Q-1119 |
| Q-1753. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1121 |
| Q-1754. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1121 |
| Q-1755. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1121 |
| Q-1756. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1122 |
| Q-1757. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1122 |
| Q-1758. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1123 |
| Q-1759. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1123 |
| Q-1760. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$) | Q-1124 |
| Q-1761. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-1126 |
| Q-1762. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-1126 |
| Q-1763. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-1126 |
| Q-1764. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-1127 |
| Q-1765. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$) | Q-1127 |

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- Q-1766. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) Q-1128
- Q-1767. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-1128
- Q-1768. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$) . Q-1129
- Q-1769. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1131
- Q-1770. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1131
- Q-1771. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1131
- Q-1772. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1132
- Q-1773. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1132
- Q-1774. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) Q-1132
- Q-1775. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-1133
- Q-1776. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$) . Q-1133
- Q-1777. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1135
- Q-1778. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1135
- Q-1779. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1135
- Q-1780. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1136
- Q-1781. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1136
- Q-1782. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) Q-1137
- Q-1783. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1137
- Q-1784. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$) . . Q-1138

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| | | |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Q-1785. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1140 |
| Q-1786. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1140 |
| Q-1787. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1140 |
| Q-1788. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1141 |
| Q-1789. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1141 |
| Q-1790. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1142 |
| Q-1791. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1142 |
| Q-1792. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$) | Q-1143 |
| Q-1793. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1145 |
| Q-1794. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1145 |
| Q-1795. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1146 |
| Q-1796. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1146 |
| Q-1797. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1147 |
| Q-1798. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1147 |
| Q-1799. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1148 |
| Q-1800. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$) | Q-1148 |
| Q-1801. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-1150 |
| Q-1802. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-1150 |
| Q-1803. | Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FRE-DYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) | Q-1150 |

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- Q-1804. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1151
- Q-1805. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1151
- Q-1806. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) Q-1151
- Q-1807. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1152
- Q-1808. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$) . Q-1152

Introduction

This appendix contains plots and tables related to the minimum and maximum value of each variable versus wave steepness for the 0-DOF prescribed motions of Model 5613 in task 2. The plots are found in Figures Q–1 through Q–226. For each variable, speed, and heading there is one plot that depicts the results from all the codes. If f stands for a time-dependent variable, then the quantities plotted are the minimum and maximum of

$$f^* \equiv \frac{f - \langle f \rangle}{H/\lambda}$$

where $\langle f \rangle$ is the mean. Only filtered values f are used since filtered values lessen the impact of spikes that probably originate in numerical filtering schemes in the codes. Linear variation as a function of the amplitude appears as a horizontal line. Quadratic variation appears as a straight line with a nonzero slope.

Tables Q–1 through Q–1808 in this appendix correspond to the plots. Following each plot is one table for each of the eight codes for which data were received. The tables give information about the mean, the minimum and maximum of the unfiltered variable, the minimum and maximum of the filtered variable, and the starred function depicted in the figure.

For the corresponding time history plots, the reader is referred to Appendix G.

TASK 2/DIFFRACTION/MODEL 5613

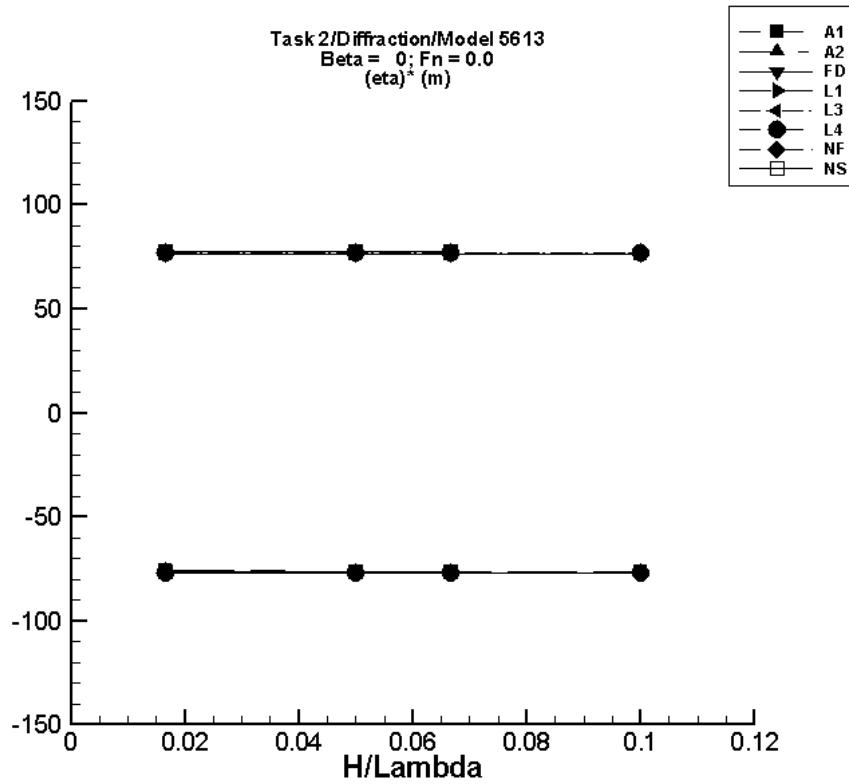


Figure Q-1. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–2. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–3. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.79E-04 | -1.28 | 1.28 | -1.28 | 1.27 | -76.9 | 76.2 |
| 1/20 | 1.14E-03 | -3.85 | 3.85 | -3.84 | 3.81 | -76.9 | 76.2 |
| 1/15 | 1.52E-03 | -5.13 | 5.13 | -5.12 | 5.08 | -76.9 | 76.2 |
| 1/10 | 2.27E-03 | -7.70 | 7.70 | -7.68 | 7.62 | -76.9 | 76.2 |

Table Q–4. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 6.20E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 1.86E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.48E-03 | -5.13 | 5.13 | -5.11 | 5.11 | -76.8 | 76.7 |
| 1/10 | 3.72E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–5. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 6.20E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 1.86E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.48E-03 | -5.13 | 5.13 | -5.11 | 5.11 | -76.8 | 76.7 |
| 1/10 | 3.72E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–6. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 6.20E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 1.86E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.48E-03 | -5.13 | 5.13 | -5.11 | 5.11 | -76.8 | 76.7 |
| 1/10 | 3.72E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–7. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|---------------------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ Mean (m) | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–8. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|---------------------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ Mean (m) | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -2.79E-04 | -1.28 | 1.28 | -1.27 | 1.29 | -76.2 | 77.3 |
| 1/20 | -8.36E-04 | -3.85 | 3.85 | -3.81 | 3.87 | -76.2 | 77.4 |
| 1/15 | -1.13E-03 | -5.13 | 5.13 | -5.10 | 5.15 | -76.5 | 77.3 |
| 1/10 | — | — | — | — | — | — | — |

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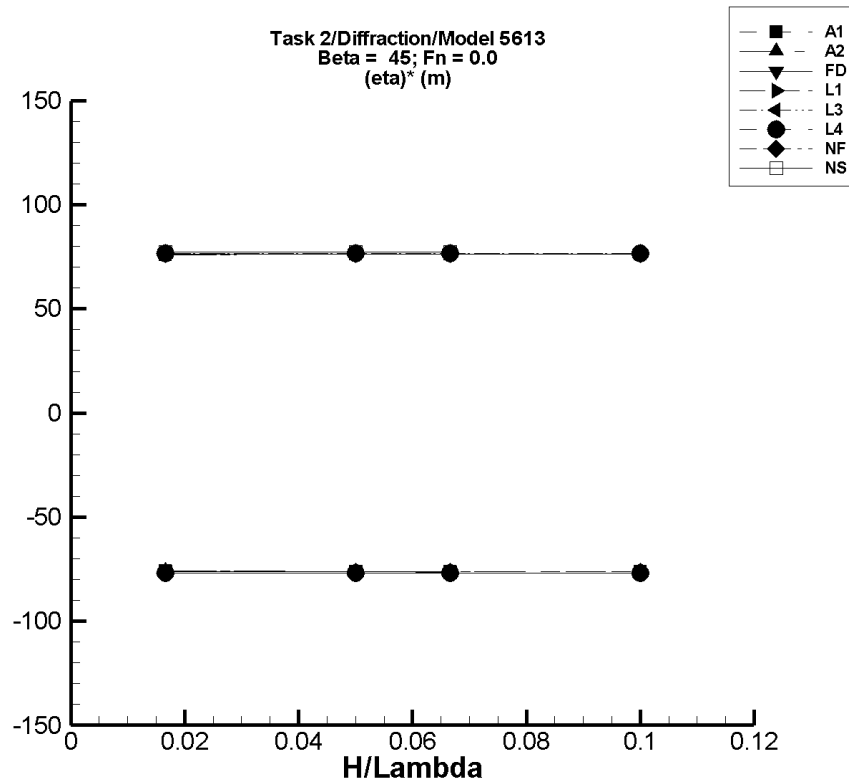


Figure Q-2. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–9. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–10. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–11. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.79E-04 | -1.28 | 1.28 | -1.28 | 1.27 | -76.9 | 76.2 |
| 1/20 | 1.14E-03 | -3.85 | 3.85 | -3.84 | 3.81 | -76.9 | 76.2 |
| 1/15 | 1.52E-03 | -5.13 | 5.13 | -5.12 | 5.08 | -76.9 | 76.2 |
| 1/10 | 2.27E-03 | -7.70 | 7.70 | -7.68 | 7.62 | -76.9 | 76.2 |

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Table Q–12. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 7.07E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 2.12E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.83E-03 | -5.13 | 5.13 | -5.11 | 5.11 | -76.8 | 76.7 |
| 1/10 | 4.24E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–13. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 7.07E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 2.12E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.83E-03 | -5.13 | 5.13 | -5.11 | 5.11 | -76.8 | 76.7 |
| 1/10 | 4.24E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–14. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 7.07E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 2.12E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.83E-03 | -5.13 | 5.13 | -5.11 | 5.11 | -76.8 | 76.7 |
| 1/10 | 4.24E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–15. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–16. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -2.90E-04 | -1.28 | 1.28 | -1.27 | 1.29 | -76.2 | 77.2 |
| 1/20 | -8.71E-04 | -3.85 | 3.85 | -3.81 | 3.86 | -76.2 | 77.3 |
| 1/15 | -1.10E-03 | -5.13 | 5.13 | -5.10 | 5.15 | -76.5 | 77.3 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

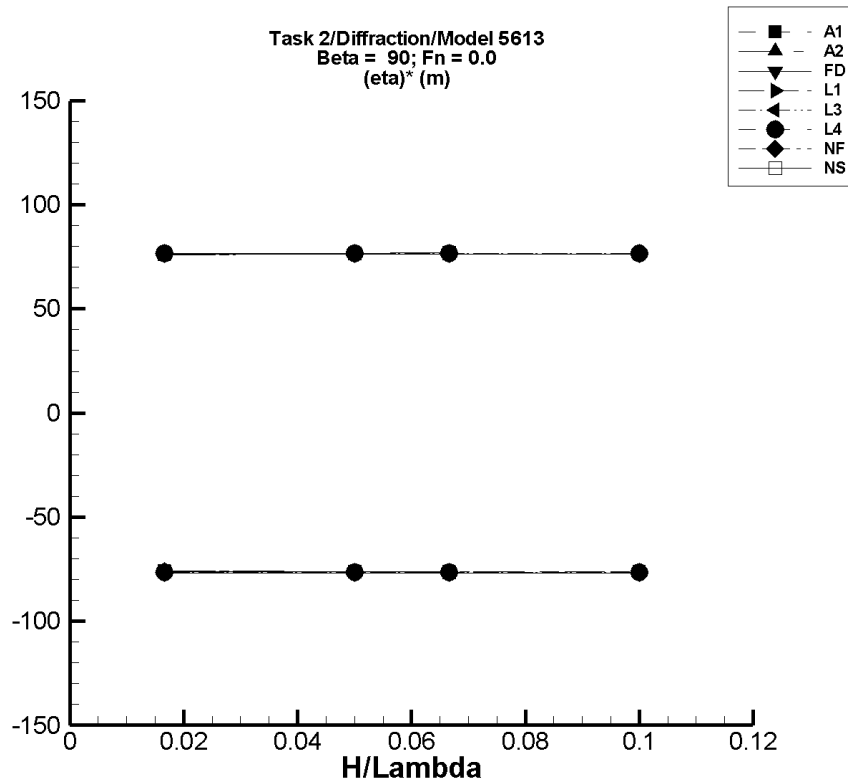


Figure Q-3. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–17. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–18. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–19. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.79E-04 | -1.28 | 1.28 | -1.28 | 1.27 | -76.9 | 76.2 |
| 1/20 | 1.14E-03 | -3.85 | 3.85 | -3.84 | 3.81 | -76.9 | 76.2 |
| 1/15 | 1.52E-03 | -5.13 | 5.13 | -5.12 | 5.08 | -76.9 | 76.2 |
| 1/10 | 2.27E-03 | -7.70 | 7.70 | -7.68 | 7.62 | -76.9 | 76.2 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–20. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.30E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.8 |
| 1/20 | -1.59E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.8 |
| 1/15 | -2.12E-03 | -5.13 | 5.13 | -5.11 | 5.12 | -76.7 | 76.8 |
| 1/10 | -3.18E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.8 |

Table Q–21. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.30E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.8 |
| 1/20 | -1.59E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.8 |
| 1/15 | -2.12E-03 | -5.13 | 5.13 | -5.11 | 5.12 | -76.7 | 76.8 |
| 1/10 | -3.18E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.8 |

Table Q–22. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.30E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.8 |
| 1/20 | -1.59E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.8 |
| 1/15 | -2.12E-03 | -5.13 | 5.13 | -5.11 | 5.12 | -76.7 | 76.8 |
| 1/10 | -3.18E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.8 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–23. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–24. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -2.88E-04 | -1.28 | 1.28 | -1.27 | 1.28 | -76.1 | 76.7 |
| 1/20 | -8.65E-04 | -3.85 | 3.85 | -3.81 | 3.84 | -76.2 | 76.8 |
| 1/15 | -1.13E-03 | -5.13 | 5.13 | -5.10 | 5.13 | -76.5 | 77.0 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

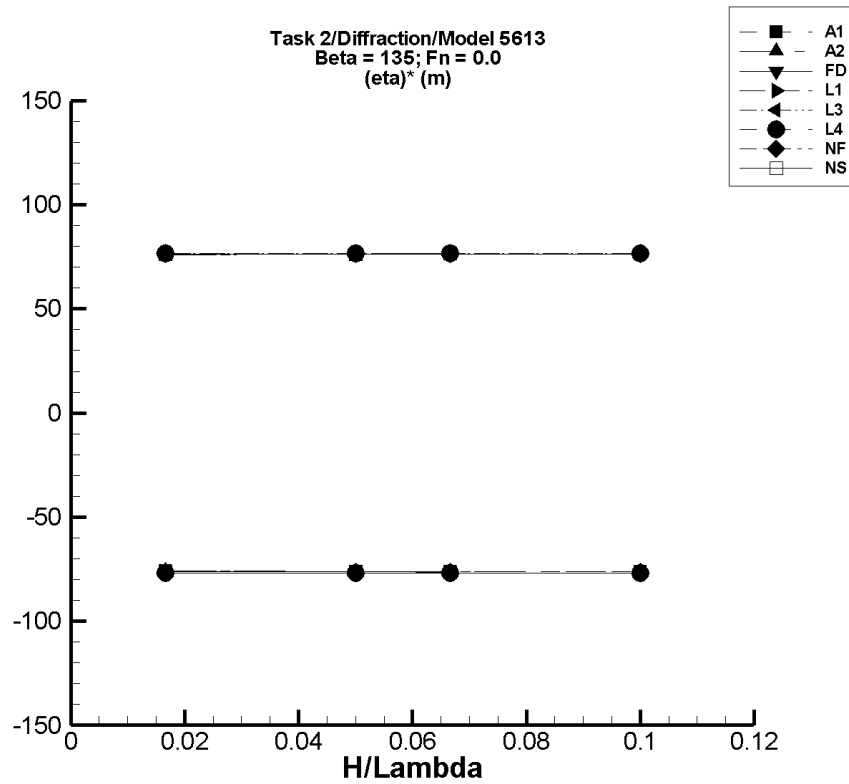


Figure Q-4. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–25. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–26. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–27. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.79E-04 | -1.28 | 1.28 | -1.28 | 1.27 | -76.9 | 76.2 |
| 1/20 | 1.14E-03 | -3.85 | 3.85 | -3.84 | 3.81 | -76.9 | 76.2 |
| 1/15 | 1.52E-03 | -5.13 | 5.13 | -5.12 | 5.08 | -76.9 | 76.2 |
| 1/10 | 2.27E-03 | -7.70 | 7.70 | -7.68 | 7.62 | -76.9 | 76.2 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–28. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.70E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.7 |
| 1/20 | 5.10E-04 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.7 |
| 1/15 | 6.80E-04 | -5.13 | 5.13 | -5.11 | 5.11 | -76.7 | 76.7 |
| 1/10 | 1.02E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.7 |

Table Q–29. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.70E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.7 |
| 1/20 | 5.10E-04 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.7 |
| 1/15 | 6.80E-04 | -5.13 | 5.13 | -5.11 | 5.11 | -76.7 | 76.7 |
| 1/10 | 1.02E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.7 |

Table Q–30. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.70E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.7 |
| 1/20 | 5.10E-04 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.7 |
| 1/15 | 6.80E-04 | -5.13 | 5.13 | -5.11 | 5.11 | -76.7 | 76.7 |
| 1/10 | 1.02E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.7 |

Table Q–31. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–32. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -2.84E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.2 |
| 1/20 | -8.53E-04 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -1.16E-03 | -5.13 | 5.13 | -5.10 | 5.10 | -76.5 | 76.5 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

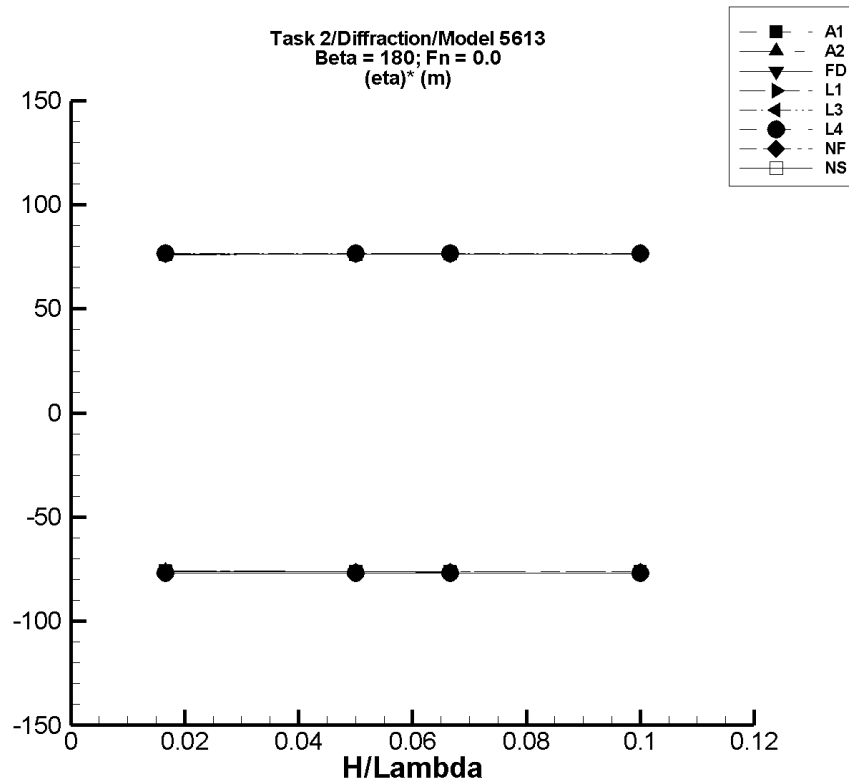


Figure Q-5. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–33. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–34. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–35. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.79E-04 | -1.28 | 1.28 | -1.28 | 1.27 | -76.9 | 76.2 |
| 1/20 | 1.14E-03 | -3.85 | 3.85 | -3.84 | 3.81 | -76.9 | 76.2 |
| 1/15 | 1.52E-03 | -5.13 | 5.13 | -5.12 | 5.08 | -76.9 | 76.2 |
| 1/10 | 2.27E-03 | -7.70 | 7.70 | -7.68 | 7.62 | -76.9 | 76.2 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–36. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 6.79E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 2.04E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.71E-03 | -5.13 | 5.13 | -5.12 | 5.11 | -76.8 | 76.7 |
| 1/10 | 4.07E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–37. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 6.79E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 2.04E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.71E-03 | -5.13 | 5.13 | -5.12 | 5.11 | -76.8 | 76.7 |
| 1/10 | 4.07E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–38. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 6.79E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.7 |
| 1/20 | 2.04E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.7 |
| 1/15 | 2.71E-03 | -5.13 | 5.13 | -5.12 | 5.11 | -76.8 | 76.7 |
| 1/10 | 4.07E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.8 | 76.7 |

Table Q–39. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–40. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -2.74E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.2 |
| 1/20 | -8.23E-04 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -1.12E-03 | -5.13 | 5.13 | -5.10 | 5.10 | -76.5 | 76.6 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

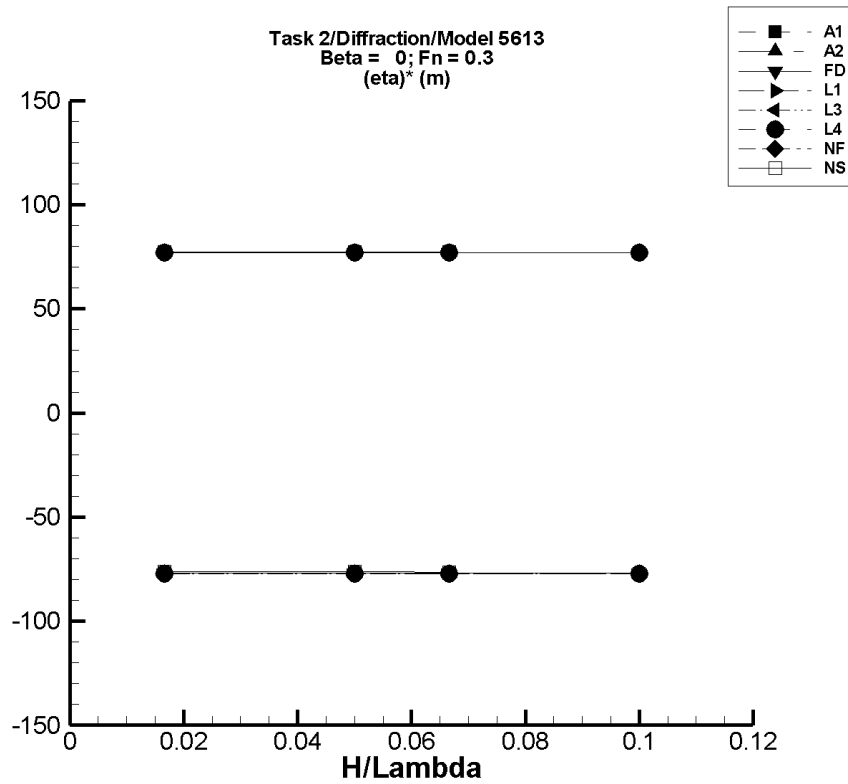


Figure Q-6. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–41. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -3.08E-05 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.8 |
| 1/20 | -9.24E-05 | -3.85 | 3.85 | -3.85 | 3.85 | -76.9 | 77.0 |
| 1/15 | -1.24E-04 | -5.14 | 5.14 | -5.14 | 5.14 | -77.0 | 77.1 |
| 1/10 | -1.87E-04 | -7.71 | 7.71 | -7.71 | 7.71 | -77.0 | 77.1 |

Table Q–42. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -3.08E-05 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.8 |
| 1/20 | -9.24E-05 | -3.85 | 3.85 | -3.85 | 3.85 | -76.9 | 77.0 |
| 1/15 | -1.24E-04 | -5.14 | 5.14 | -5.14 | 5.14 | -77.0 | 77.1 |
| 1/10 | -1.87E-04 | -7.71 | 7.71 | -7.71 | 7.71 | -77.0 | 77.1 |

Table Q–43. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 5.71E-05 | -1.28 | 1.28 | -1.28 | 1.28 | -77.0 | 76.9 |
| 1/20 | 1.72E-04 | -3.85 | 3.85 | -3.85 | 3.85 | -77.0 | 76.9 |
| 1/15 | 2.29E-04 | -5.13 | 5.13 | -5.13 | 5.13 | -77.0 | 76.9 |
| 1/10 | 3.44E-04 | -7.70 | 7.70 | -7.70 | 7.70 | -77.0 | 76.9 |

Table Q–44. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 8.91E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -77.1 | 76.9 |
| 1/20 | 2.67E-03 | -3.85 | 3.85 | -3.85 | 3.85 | -77.1 | 76.9 |
| 1/15 | 3.56E-03 | -5.13 | 5.13 | -5.14 | 5.13 | -77.1 | 76.9 |
| 1/10 | 5.34E-03 | -7.70 | 7.70 | -7.71 | 7.70 | -77.1 | 76.9 |

Table Q–45. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 8.91E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -77.1 | 76.9 |
| 1/20 | 2.67E-03 | -3.85 | 3.85 | -3.85 | 3.85 | -77.1 | 76.9 |
| 1/15 | 3.56E-03 | -5.13 | 5.13 | -5.14 | 5.13 | -77.1 | 76.9 |
| 1/10 | 5.34E-03 | -7.70 | 7.70 | -7.71 | 7.70 | -77.1 | 76.9 |

Table Q–46. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 8.91E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -77.1 | 76.9 |
| 1/20 | 2.67E-03 | -3.85 | 3.85 | -3.85 | 3.85 | -77.1 | 76.9 |
| 1/15 | 3.56E-03 | -5.13 | 5.13 | -5.14 | 5.13 | -77.1 | 76.9 |
| 1/10 | 5.34E-03 | -7.70 | 7.70 | -7.71 | 7.70 | -77.1 | 76.9 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-47. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-48. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -7.67E-04 | -1.28 | 1.28 | -1.27 | 1.29 | -76.2 | 77.4 |
| 1/20 | -2.30E-03 | -3.85 | 3.85 | -3.81 | 3.87 | -76.2 | 77.4 |
| 1/15 | -3.06E-03 | -5.13 | 5.13 | -5.10 | 5.15 | -76.5 | 77.4 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

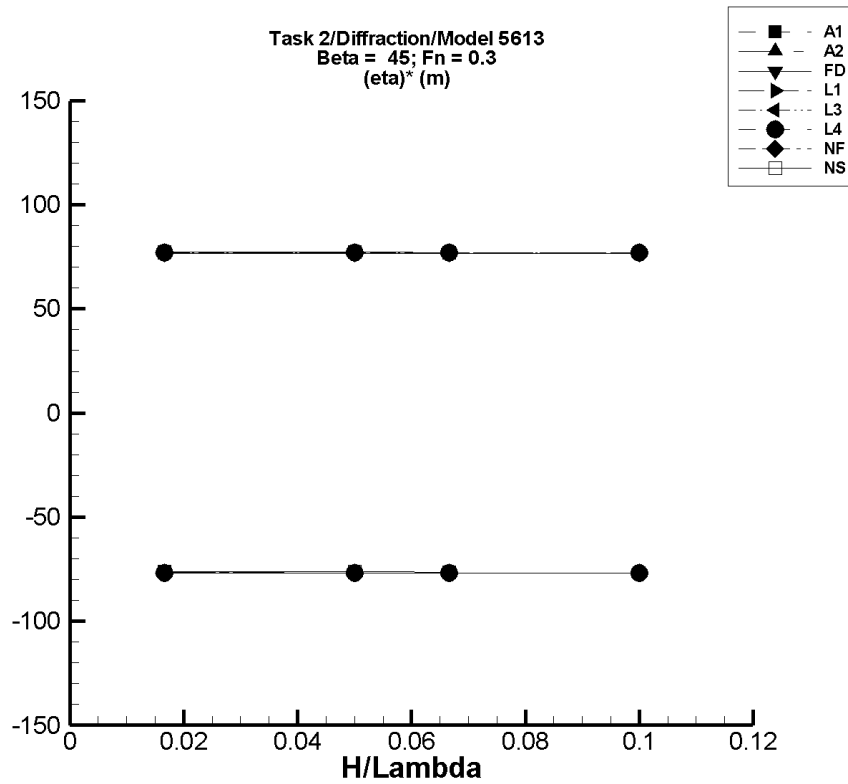


Figure Q-7. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–49. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.06E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.6 | 76.8 |
| 1/20 | 9.20E-04 | -3.85 | 3.85 | -3.84 | 3.85 | -76.8 | 77.0 |
| 1/15 | 1.23E-03 | -5.14 | 5.14 | -5.13 | 5.14 | -76.9 | 77.1 |
| 1/10 | 1.84E-03 | -7.71 | 7.71 | -7.69 | 7.71 | -76.9 | 77.1 |

Table Q–50. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.06E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.6 | 76.8 |
| 1/20 | 9.20E-04 | -3.85 | 3.85 | -3.84 | 3.85 | -76.8 | 77.0 |
| 1/15 | 1.23E-03 | -5.14 | 5.14 | -5.13 | 5.14 | -76.9 | 77.1 |
| 1/10 | 1.84E-03 | -7.71 | 7.71 | -7.69 | 7.71 | -76.9 | 77.1 |

Table Q–51. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.44E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.8 | 76.8 |
| 1/20 | 1.03E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.8 | 76.8 |
| 1/15 | 1.37E-03 | -5.13 | 5.13 | -5.12 | 5.12 | -76.8 | 76.8 |
| 1/10 | 2.06E-03 | -7.70 | 7.70 | -7.68 | 7.68 | -76.8 | 76.8 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-52. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.82E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.9 | 76.9 |
| 1/20 | 5.46E-04 | -3.85 | 3.85 | -3.85 | 3.85 | -76.9 | 76.9 |
| 1/15 | 7.29E-04 | -5.13 | 5.13 | -5.13 | 5.13 | -76.9 | 76.9 |
| 1/10 | 1.09E-03 | -7.70 | 7.70 | -7.69 | 7.70 | -76.9 | 76.9 |

Table Q-53. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.82E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.9 | 76.9 |
| 1/20 | 5.46E-04 | -3.85 | 3.85 | -3.85 | 3.85 | -76.9 | 76.9 |
| 1/15 | 7.29E-04 | -5.13 | 5.13 | -5.13 | 5.13 | -76.9 | 76.9 |
| 1/10 | 1.09E-03 | -7.70 | 7.70 | -7.69 | 7.70 | -76.9 | 76.9 |

Table Q-54. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.82E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.9 | 76.9 |
| 1/20 | 5.46E-04 | -3.85 | 3.85 | -3.85 | 3.85 | -76.9 | 76.9 |
| 1/15 | 7.29E-04 | -5.13 | 5.13 | -5.13 | 5.13 | -76.9 | 76.9 |
| 1/10 | 1.09E-03 | -7.70 | 7.70 | -7.69 | 7.70 | -76.9 | 76.9 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–55. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–56. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.68E-04 | -1.28 | 1.28 | -1.27 | 1.29 | -76.2 | 77.2 |
| 1/20 | 1.10E-03 | -3.85 | 3.85 | -3.81 | 3.86 | -76.2 | 77.3 |
| 1/15 | 1.47E-03 | -5.13 | 5.13 | -5.10 | 5.14 | -76.5 | 77.1 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

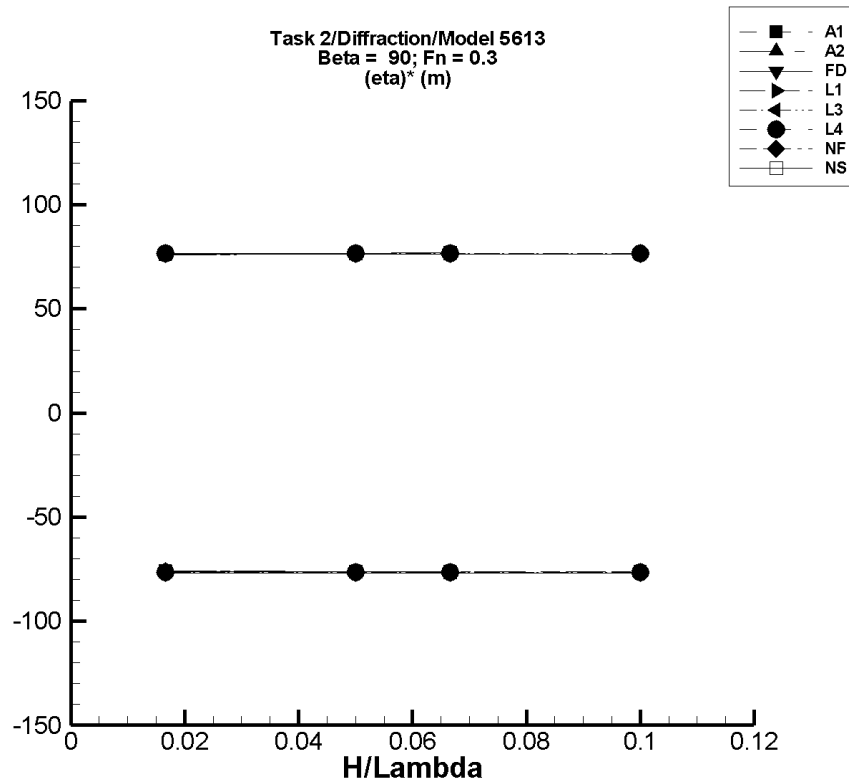


Figure Q-8. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-57. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q-58. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -8.09E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.0 | 76.0 |
| 1/20 | -2.43E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -3.25E-03 | -5.14 | 5.14 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -4.87E-03 | -7.71 | 7.71 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q-59. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.79E-04 | -1.28 | 1.28 | -1.28 | 1.27 | -76.9 | 76.2 |
| 1/20 | 1.14E-03 | -3.85 | 3.85 | -3.84 | 3.81 | -76.9 | 76.2 |
| 1/15 | 1.52E-03 | -5.13 | 5.13 | -5.12 | 5.08 | -76.9 | 76.2 |
| 1/10 | 2.27E-03 | -7.70 | 7.70 | -7.68 | 7.62 | -76.9 | 76.2 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-60. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.30E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.8 |
| 1/20 | -1.59E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.8 |
| 1/15 | -2.12E-03 | -5.13 | 5.13 | -5.11 | 5.12 | -76.7 | 76.8 |
| 1/10 | -3.18E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.8 |

Table Q-61. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.30E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.8 |
| 1/20 | -1.59E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.8 |
| 1/15 | -2.12E-03 | -5.13 | 5.13 | -5.11 | 5.12 | -76.7 | 76.8 |
| 1/10 | -3.18E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.8 |

Table Q-62. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.30E-04 | -1.28 | 1.28 | -1.28 | 1.28 | -76.7 | 76.8 |
| 1/20 | -1.59E-03 | -3.85 | 3.85 | -3.84 | 3.84 | -76.7 | 76.8 |
| 1/15 | -2.12E-03 | -5.13 | 5.13 | -5.11 | 5.12 | -76.7 | 76.8 |
| 1/10 | -3.18E-03 | -7.70 | 7.70 | -7.67 | 7.67 | -76.7 | 76.8 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–63. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–64. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -2.89E-04 | -1.28 | 1.28 | -1.27 | 1.28 | -76.1 | 76.7 |
| 1/20 | -8.66E-04 | -3.85 | 3.85 | -3.81 | 3.84 | -76.2 | 76.8 |
| 1/15 | -1.13E-03 | -5.13 | 5.13 | -5.10 | 5.13 | -76.5 | 77.0 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

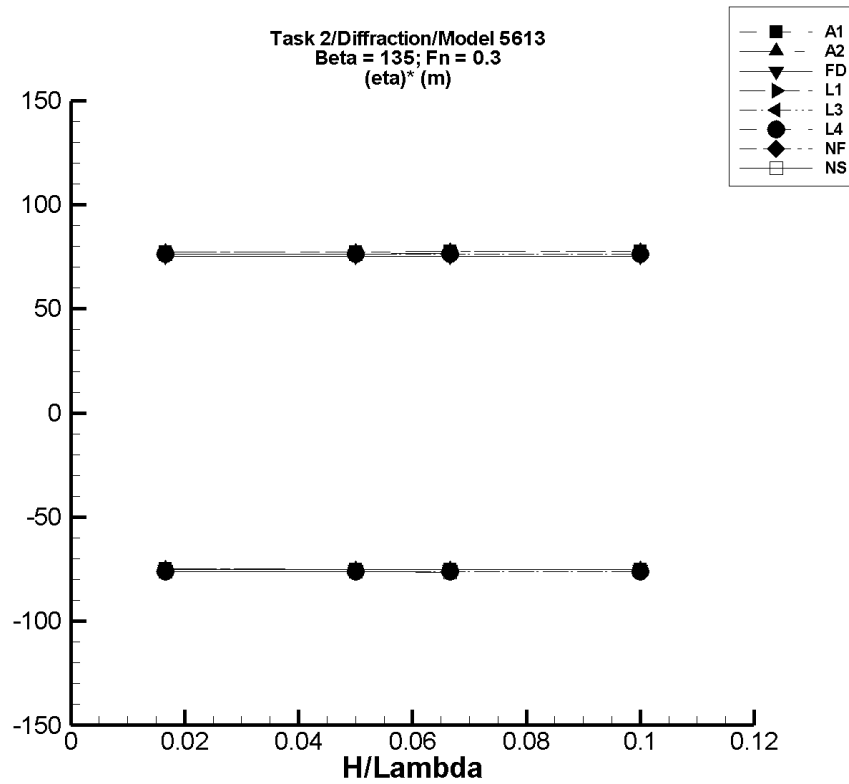


Figure Q-9. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-65. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.32E-04 | -1.28 | 1.28 | -1.25 | 1.29 | -74.9 | 77.2 |
| 1/20 | -1.60E-03 | -3.85 | 3.85 | -3.76 | 3.87 | -75.1 | 77.4 |
| 1/15 | -2.14E-03 | -5.14 | 5.14 | -5.01 | 5.16 | -75.2 | 77.5 |
| 1/10 | -3.21E-03 | -7.70 | 7.71 | -7.52 | 7.75 | -75.2 | 77.5 |

Table Q-66. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -5.32E-04 | -1.28 | 1.28 | -1.25 | 1.29 | -74.9 | 77.2 |
| 1/20 | -1.60E-03 | -3.85 | 3.85 | -3.76 | 3.87 | -75.1 | 77.4 |
| 1/15 | -2.14E-03 | -5.14 | 5.14 | -5.01 | 5.16 | -75.2 | 77.5 |
| 1/10 | -3.21E-03 | -7.70 | 7.71 | -7.52 | 7.75 | -75.2 | 77.5 |

Table Q-67. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 3.19E-05 | -1.28 | 1.28 | -1.25 | 1.25 | -75.1 | 75.1 |
| 1/20 | 9.70E-05 | -3.85 | 3.85 | -3.76 | 3.76 | -75.1 | 75.1 |
| 1/15 | 1.29E-04 | -5.13 | 5.13 | -5.01 | 5.01 | -75.1 | 75.1 |
| 1/10 | 1.93E-04 | -7.70 | 7.70 | -7.51 | 7.51 | -75.1 | 75.1 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–68. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -1.63E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.3 | 76.3 |
| 1/20 | -4.88E-04 | -3.85 | 3.85 | -3.82 | 3.82 | -76.3 | 76.3 |
| 1/15 | -6.51E-04 | -5.13 | 5.13 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -9.76E-04 | -7.70 | 7.70 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–69. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -1.63E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.3 | 76.3 |
| 1/20 | -4.88E-04 | -3.85 | 3.85 | -3.82 | 3.82 | -76.3 | 76.3 |
| 1/15 | -6.51E-04 | -5.13 | 5.13 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -9.76E-04 | -7.70 | 7.70 | -7.63 | 7.63 | -76.3 | 76.3 |

Table Q–70. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -1.63E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.3 | 76.3 |
| 1/20 | -4.88E-04 | -3.85 | 3.85 | -3.82 | 3.82 | -76.3 | 76.3 |
| 1/15 | -6.51E-04 | -5.13 | 5.13 | -5.09 | 5.09 | -76.3 | 76.3 |
| 1/10 | -9.76E-04 | -7.70 | 7.70 | -7.63 | 7.63 | -76.3 | 76.3 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–71. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–72. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 1.34E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.2 |
| 1/20 | 4.01E-04 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | 5.36E-04 | -5.13 | 5.13 | -5.10 | 5.10 | -76.5 | 76.5 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

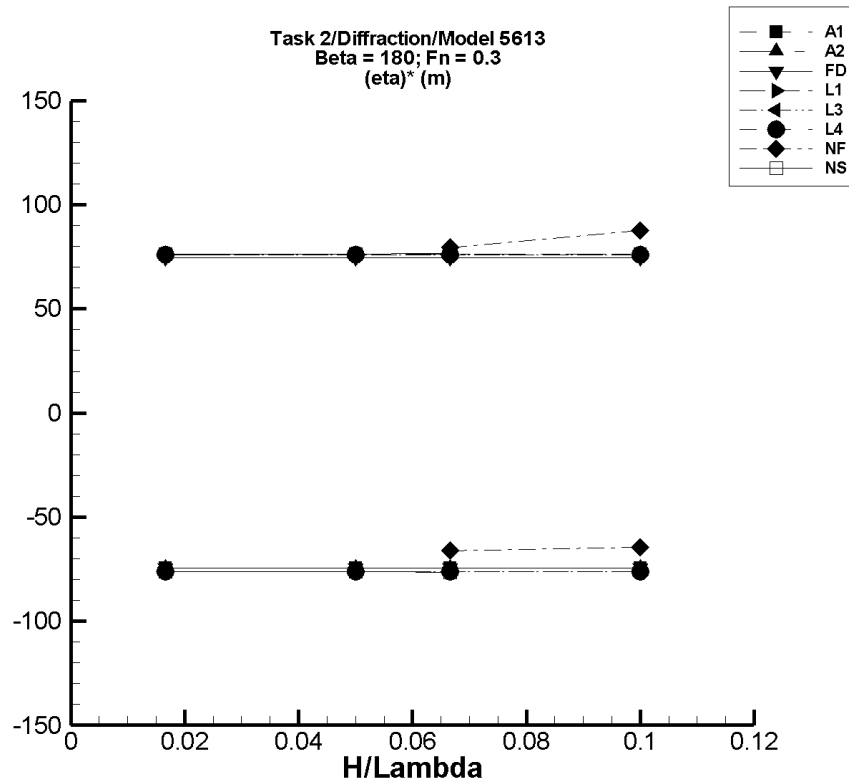


Figure Q-10. Minimum and maximum of filtered $(\eta - \langle \eta \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-73. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -1.33E-03 | -1.28 | 1.28 | -1.24 | 1.27 | -74.3 | 76.0 |
| 1/20 | -3.99E-03 | -3.85 | 3.85 | -3.73 | 3.81 | -74.5 | 76.2 |
| 1/15 | -5.33E-03 | -5.14 | 5.14 | -4.98 | 5.08 | -74.6 | 76.3 |
| 1/10 | -8.00E-03 | -7.71 | 7.71 | -7.47 | 7.62 | -74.6 | 76.3 |

Table Q-74. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -1.33E-03 | -1.28 | 1.28 | -1.24 | 1.27 | -74.3 | 76.0 |
| 1/20 | -3.99E-03 | -3.85 | 3.85 | -3.73 | 3.81 | -74.5 | 76.2 |
| 1/15 | -5.33E-03 | -5.14 | 5.14 | -4.98 | 5.08 | -74.6 | 76.3 |
| 1/10 | -8.00E-03 | -7.71 | 7.71 | -7.47 | 7.62 | -74.6 | 76.3 |

Table Q-75. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -3.62E-04 | -1.28 | 1.28 | -1.24 | 1.24 | -74.5 | 74.6 |
| 1/20 | -1.09E-03 | -3.85 | 3.85 | -3.73 | 3.73 | -74.5 | 74.6 |
| 1/15 | -1.45E-03 | -5.13 | 5.13 | -4.97 | 4.97 | -74.5 | 74.6 |
| 1/10 | -2.17E-03 | -7.70 | 7.70 | -7.46 | 7.45 | -74.5 | 74.6 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–76. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 8.56E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.1 |
| 1/20 | 2.57E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.1 |
| 1/15 | 3.42E-03 | -5.13 | 5.13 | -5.08 | 5.08 | -76.2 | 76.1 |
| 1/10 | 5.14E-03 | -7.70 | 7.70 | -7.61 | 7.61 | -76.2 | 76.1 |

Table Q–77. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 8.56E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.1 |
| 1/20 | 2.57E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.1 |
| 1/15 | 3.42E-03 | -5.13 | 5.13 | -5.08 | 5.08 | -76.2 | 76.1 |
| 1/10 | 5.14E-03 | -7.70 | 7.70 | -7.61 | 7.61 | -76.2 | 76.1 |

Table Q–78. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle\eta\rangle$ | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | Mean (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | 8.56E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.1 |
| 1/20 | 2.57E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.1 |
| 1/15 | 3.42E-03 | -5.13 | 5.13 | -5.08 | 5.08 | -76.2 | 76.1 |
| 1/10 | 5.14E-03 | -7.70 | 7.70 | -7.61 | 7.61 | -76.2 | 76.1 |

Table Q–79. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|---------------------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ Mean (m) | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | -3.19E-03 | -3.54 | 4.15 | -3.40 | 3.89 | -68.0 | 77.8 |
| 1/15 | -3.65E-03 | -4.59 | 5.67 | -4.43 | 5.28 | -66.4 | 79.3 |
| 1/10 | -1.90E-02 | -6.49 | 8.91 | -6.45 | 8.75 | -64.3 | 87.6 |

Table Q–80. Minimum and Maximum of Variables η and $(\eta)^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|---------------------------------------|-------------------|-------------|-----------------|-------------|---------------------|-------------|
| (H/λ) | $\langle \eta \rangle$ Mean (m) | Unfiltered η | | Filtered η | | Filtered $(\eta)^*$ | |
| | | Min. (m) | Max. (m) | Min. (m) | Max. (m) | Min. (m) | Max. (m) |
| 1/60 | -7.40E-04 | -1.28 | 1.28 | -1.27 | 1.27 | -76.2 | 76.2 |
| 1/20 | -2.22E-03 | -3.85 | 3.85 | -3.81 | 3.81 | -76.2 | 76.2 |
| 1/15 | -2.97E-03 | -5.13 | 5.13 | -5.10 | 5.10 | -76.5 | 76.6 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

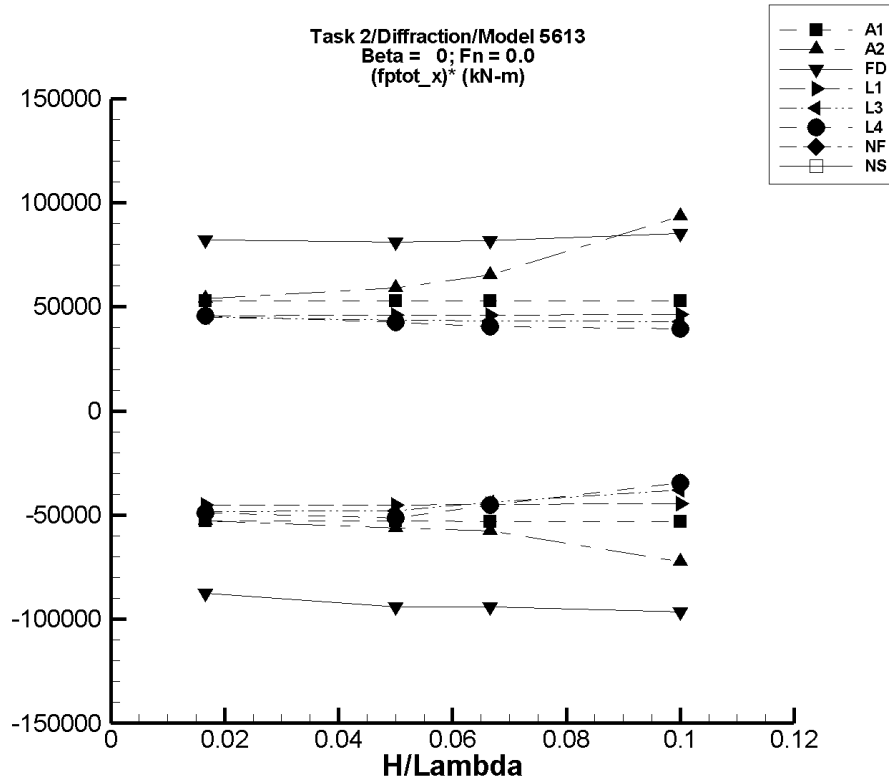


Figure Q-11. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–81. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$
, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -1.61 | -890. | 886. | -881. | 877. | -5.28E+04 | 5.27E+04 |
| 1/20 | -4.84 | -2.68E+03 | 2.67E+03 | -2.65E+03 | 2.64E+03 | -5.29E+04 | 5.29E+04 |
| 1/15 | -6.46 | -3.57E+03 | 3.56E+03 | -3.54E+03 | 3.52E+03 | -5.30E+04 | 5.29E+04 |
| 1/10 | -9.69 | -5.36E+03 | 5.34E+03 | -5.31E+03 | 5.28E+03 | -5.30E+04 | 5.29E+04 |

Table Q–82. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$
, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 23.4 | -883. | 928. | -857. | 920. | -5.29E+04 | 5.38E+04 |
| 1/20 | 89.3 | -2.79E+03 | 3.10E+03 | -2.72E+03 | 3.04E+03 | -5.63E+04 | 5.90E+04 |
| 1/15 | 107. | -3.80E+03 | 4.55E+03 | -3.74E+03 | 4.45E+03 | -5.77E+04 | 6.52E+04 |
| 1/10 | 457. | -7.17E+03 | 9.81E+03 | -6.78E+03 | 9.81E+03 | -7.24E+04 | 9.35E+04 |

Table Q–83. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$
, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -9.28 | -1.49E+03 | 1.37E+03 | -1.47E+03 | 1.36E+03 | -8.75E+04 | 8.21E+04 |
| 1/20 | -1.12 | -4.82E+03 | 4.10E+03 | -4.71E+03 | 4.06E+03 | -9.42E+04 | 8.13E+04 |
| 1/15 | 4.34 | -6.39E+03 | 5.51E+03 | -6.28E+03 | 5.46E+03 | -9.42E+04 | 8.18E+04 |
| 1/10 | 9.90 | -9.83E+03 | 8.67E+03 | -9.63E+03 | 8.55E+03 | -9.64E+04 | 8.54E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–84. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$
, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 0.880 | -757. | 764. | -754. | 761. | -4.53E+04 | 4.56E+04 |
| 1/20 | 12.3 | -2.25E+03 | 2.31E+03 | -2.24E+03 | 2.31E+03 | -4.50E+04 | 4.59E+04 |
| 1/15 | 22.9 | -2.98E+03 | 3.10E+03 | -2.97E+03 | 3.09E+03 | -4.49E+04 | 4.60E+04 |
| 1/10 | 53.7 | -4.43E+03 | 4.70E+03 | -4.41E+03 | 4.68E+03 | -4.47E+04 | 4.63E+04 |

Table Q–85. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$
, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -37.6 | -846. | 713. | -842. | 710. | -4.82E+04 | 4.49E+04 |
| 1/20 | -18.5 | -2.44E+03 | 2.18E+03 | -2.41E+03 | 2.17E+03 | -4.79E+04 | 4.37E+04 |
| 1/15 | -3.25 | -2.96E+03 | 2.91E+03 | -2.93E+03 | 2.89E+03 | -4.39E+04 | 4.34E+04 |
| 1/10 | 30.3 | -3.81E+03 | 4.36E+03 | -3.77E+03 | 4.33E+03 | -3.80E+04 | 4.30E+04 |

Table Q–86. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$
, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 13.0 | -814. | 779. | -805. | 772. | -4.91E+04 | 4.55E+04 |
| 1/20 | 421. | -2.25E+03 | 2.56E+03 | -2.14E+03 | 2.54E+03 | -5.13E+04 | 4.24E+04 |
| 1/15 | 719. | -2.42E+03 | 3.46E+03 | -2.30E+03 | 3.41E+03 | -4.53E+04 | 4.04E+04 |
| 1/10 | 1.20E+03 | -2.60E+03 | 5.27E+03 | -2.27E+03 | 5.13E+03 | -3.47E+04 | 3.93E+04 |

Table Q–87. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–88. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

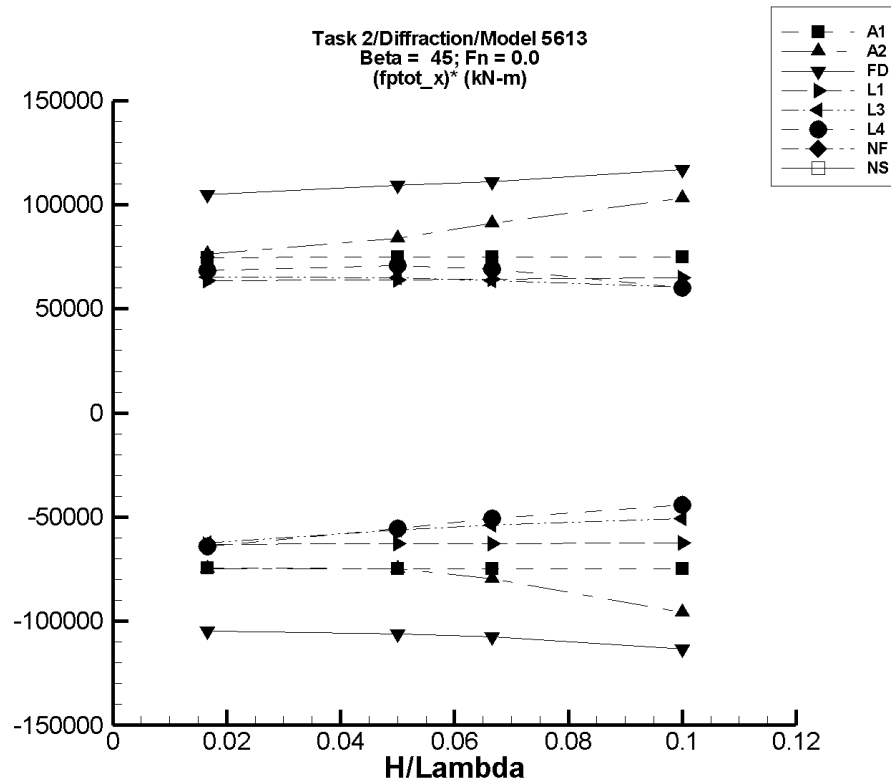


Figure Q-12. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-89. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -1.64 | -1.26E+03 | 1.25E+03 | -1.24E+03 | 1.24E+03 | -7.45E+04 | 7.46E+04 |
| 1/20 | -4.94 | -3.78E+03 | 3.77E+03 | -3.74E+03 | 3.73E+03 | -7.47E+04 | 7.48E+04 |
| 1/15 | -6.60 | -5.04E+03 | 5.04E+03 | -5.00E+03 | 4.98E+03 | -7.48E+04 | 7.49E+04 |
| 1/10 | -9.90 | -7.57E+03 | 7.55E+03 | -7.49E+03 | 7.48E+03 | -7.48E+04 | 7.49E+04 |

Table Q-90. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 22.1 | -1.25E+03 | 1.31E+03 | -1.22E+03 | 1.30E+03 | -7.46E+04 | 7.64E+04 |
| 1/20 | 48.6 | -3.73E+03 | 4.31E+03 | -3.69E+03 | 4.25E+03 | -7.48E+04 | 8.40E+04 |
| 1/15 | 83.4 | -5.38E+03 | 6.24E+03 | -5.23E+03 | 6.16E+03 | -7.98E+04 | 9.11E+04 |
| 1/10 | 160. | -9.53E+03 | 1.08E+04 | -9.42E+03 | 1.05E+04 | -9.58E+04 | 1.03E+05 |

Table Q-91. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -9.94 | -1.77E+03 | 1.75E+03 | -1.75E+03 | 1.74E+03 | -1.05E+05 | 1.05E+05 |
| 1/20 | -14.9 | -5.38E+03 | 5.51E+03 | -5.32E+03 | 5.45E+03 | -1.06E+05 | 1.09E+05 |
| 1/15 | -22.3 | -7.26E+03 | 7.47E+03 | -7.19E+03 | 7.39E+03 | -1.08E+05 | 1.11E+05 |
| 1/10 | -36.5 | -1.15E+04 | 1.18E+04 | -1.14E+04 | 1.17E+04 | -1.13E+05 | 1.17E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-92. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 8.24 | -1.05E+03 | 1.07E+03 | -1.04E+03 | 1.07E+03 | -6.31E+04 | 6.36E+04 |
| 1/20 | 77.3 | -3.07E+03 | 3.29E+03 | -3.06E+03 | 3.28E+03 | -6.28E+04 | 6.41E+04 |
| 1/15 | 138. | -4.05E+03 | 4.44E+03 | -4.04E+03 | 4.42E+03 | -6.26E+04 | 6.43E+04 |
| 1/10 | 312. | -5.94E+03 | 6.82E+03 | -5.92E+03 | 6.79E+03 | -6.23E+04 | 6.48E+04 |

Table Q-93. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -30.7 | -1.08E+03 | 1.06E+03 | -1.07E+03 | 1.06E+03 | -6.26E+04 | 6.54E+04 |
| 1/20 | 35.0 | -2.79E+03 | 3.30E+03 | -2.78E+03 | 3.29E+03 | -5.64E+04 | 6.50E+04 |
| 1/15 | 93.9 | -3.51E+03 | 4.35E+03 | -3.50E+03 | 4.33E+03 | -5.39E+04 | 6.35E+04 |
| 1/10 | 269. | -4.83E+03 | 6.35E+03 | -4.81E+03 | 6.32E+03 | -5.08E+04 | 6.05E+04 |

Table Q-94. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 19.2 | -1.06E+03 | 1.17E+03 | -1.05E+03 | 1.16E+03 | -6.41E+04 | 6.83E+04 |
| 1/20 | 451. | -2.34E+03 | 4.01E+03 | -2.32E+03 | 3.98E+03 | -5.55E+04 | 7.07E+04 |
| 1/15 | 718. | -2.69E+03 | 5.38E+03 | -2.66E+03 | 5.33E+03 | -5.07E+04 | 6.92E+04 |
| 1/10 | 1.12E+03 | -3.58E+03 | 7.42E+03 | -3.29E+03 | 7.14E+03 | -4.41E+04 | 6.01E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–95. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–96. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

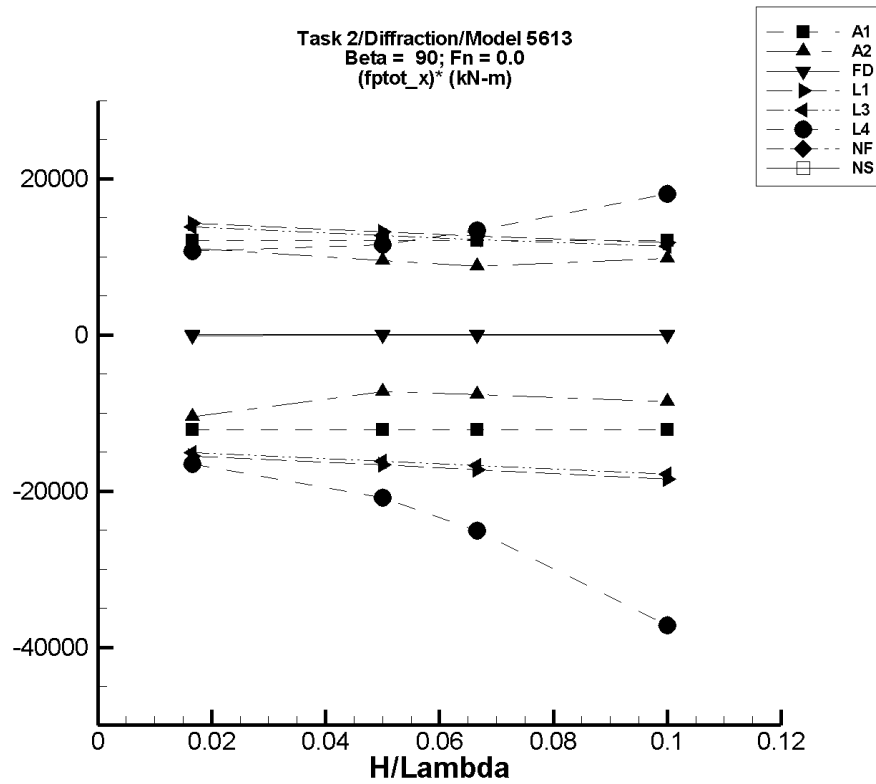


Figure Q-13. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-97. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.00 | -203. | 204. | -201. | 202. | -1.21E+04 | 1.21E+04 |
| 1/20 | 3.01 | -611. | 615. | -605. | 608. | -1.22E+04 | 1.21E+04 |
| 1/15 | 4.02 | -816. | 821. | -808. | 812. | -1.22E+04 | 1.21E+04 |
| 1/10 | 6.03 | -1.22E+03 | 1.23E+03 | -1.21E+03 | 1.22E+03 | -1.22E+04 | 1.21E+04 |

Table Q-98. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 25.1 | -151. | 212. | -150. | 210. | -1.05E+04 | 1.11E+04 |
| 1/20 | 53.7 | -1.68E+03 | 574. | -312. | 528. | -7.31E+03 | 9.49E+03 |
| 1/15 | 98.5 | -432. | 703. | -410. | 686. | -7.63E+03 | 8.82E+03 |
| 1/10 | 159. | -764. | 1.14E+03 | -694. | 1.13E+03 | -8.53E+03 | 9.75E+03 |

Table Q-99. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -9.08 | -10.7 | -8.02 | -10.5 | -8.03 | -87.9 | 63.2 |
| 1/20 | -7.28 | -9.27 | -4.90 | -8.70 | -4.96 | -28.4 | 46.4 |
| 1/15 | -6.05 | -9.05 | -0.689 | -8.39 | -0.811 | -35.1 | 78.6 |
| 1/10 | -4.72 | -8.60 | 0.436 | -7.91 | 0.125 | -31.9 | 48.4 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–100. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 11.6 | -248. | 251. | -247. | 250. | -1.55E+04 | 1.43E+04 |
| 1/20 | 103. | -734. | 764. | -731. | 762. | -1.67E+04 | 1.32E+04 |
| 1/15 | 184. | -974. | 1.03E+03 | -968. | 1.03E+03 | -1.73E+04 | 1.26E+04 |
| 1/10 | 413. | -1.44E+03 | 1.60E+03 | -1.43E+03 | 1.60E+03 | -1.85E+04 | 1.18E+04 |

Table Q–101. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -27.1 | -279. | 205. | -278. | 204. | -1.50E+04 | 1.39E+04 |
| 1/20 | 65.5 | -747. | 702. | -744. | 700. | -1.62E+04 | 1.27E+04 |
| 1/15 | 145. | -976. | 956. | -970. | 954. | -1.67E+04 | 1.21E+04 |
| 1/10 | 372. | -1.42E+03 | 1.51E+03 | -1.41E+03 | 1.51E+03 | -1.78E+04 | 1.14E+04 |

Table Q–102. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -45.3 | -323. | 162. | -321. | 134. | -1.66E+04 | 1.07E+04 |
| 1/20 | -95.5 | -1.25E+03 | 527. | -1.14E+03 | 481. | -2.09E+04 | 1.15E+04 |
| 1/15 | -225. | -2.04E+03 | 829. | -1.90E+03 | 666. | -2.51E+04 | 1.34E+04 |
| 1/10 | -606. | -4.70E+03 | 1.44E+03 | -4.32E+03 | 1.20E+03 | -3.72E+04 | 1.80E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–103. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–104. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

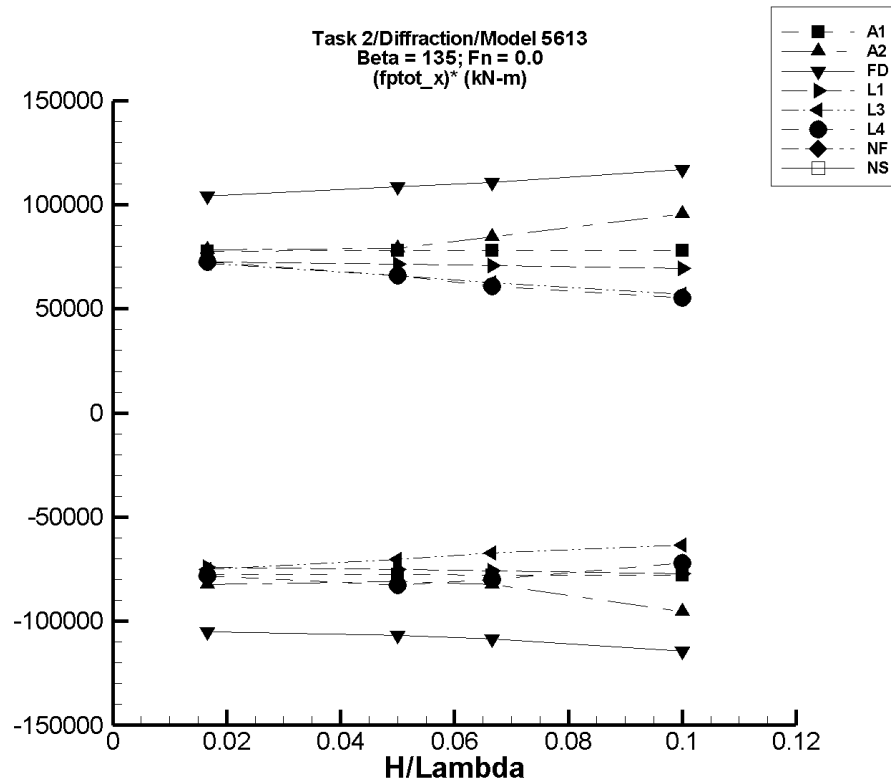


Figure Q-14. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–105. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 2.25 | -1.30E+03 | 1.31E+03 | -1.29E+03 | 1.30E+03 | -7.75E+04 | 7.77E+04 |
| 1/20 | 6.77 | -3.92E+03 | 3.94E+03 | -3.88E+03 | 3.90E+03 | -7.77E+04 | 7.79E+04 |
| 1/15 | 9.03 | -5.23E+03 | 5.26E+03 | -5.18E+03 | 5.21E+03 | -7.78E+04 | 7.80E+04 |
| 1/10 | 13.5 | -7.84E+03 | 7.88E+03 | -7.77E+03 | 7.81E+03 | -7.78E+04 | 7.80E+04 |

Table Q–106. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 26.9 | -1.36E+03 | 1.35E+03 | -1.35E+03 | 1.33E+03 | -8.24E+04 | 7.84E+04 |
| 1/20 | 69.7 | -4.01E+03 | 4.11E+03 | -3.98E+03 | 4.01E+03 | -8.11E+04 | 7.89E+04 |
| 1/15 | 121. | -5.41E+03 | 6.87E+03 | -5.36E+03 | 5.77E+03 | -8.23E+04 | 8.47E+04 |
| 1/10 | 132. | -9.53E+03 | 9.89E+03 | -9.41E+03 | 9.69E+03 | -9.54E+04 | 9.55E+04 |

Table Q–107. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -8.52 | -1.76E+03 | 1.75E+03 | -1.76E+03 | 1.73E+03 | -1.05E+05 | 1.04E+05 |
| 1/20 | -7.28 | -5.35E+03 | 5.49E+03 | -5.34E+03 | 5.43E+03 | -1.07E+05 | 1.09E+05 |
| 1/15 | -11.2 | -7.23E+03 | 7.45E+03 | -7.24E+03 | 7.37E+03 | -1.08E+05 | 1.11E+05 |
| 1/10 | -29.7 | -1.15E+04 | 1.18E+04 | -1.15E+04 | 1.16E+04 | -1.15E+05 | 1.17E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–108. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 8.36 | -1.23E+03 | 1.22E+03 | -1.22E+03 | 1.22E+03 | -7.40E+04 | 7.26E+04 |
| 1/20 | 67.4 | -3.71E+03 | 3.65E+03 | -3.70E+03 | 3.63E+03 | -7.52E+04 | 7.13E+04 |
| 1/15 | 118. | -4.96E+03 | 4.85E+03 | -4.94E+03 | 4.83E+03 | -7.59E+04 | 7.07E+04 |
| 1/10 | 262. | -7.48E+03 | 7.23E+03 | -7.45E+03 | 7.21E+03 | -7.71E+04 | 6.95E+04 |

Table Q–109. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -30.4 | -1.29E+03 | 1.17E+03 | -1.29E+03 | 1.17E+03 | -7.53E+04 | 7.18E+04 |
| 1/20 | 26.5 | -3.50E+03 | 3.33E+03 | -3.49E+03 | 3.32E+03 | -7.04E+04 | 6.59E+04 |
| 1/15 | 75.3 | -4.41E+03 | 4.25E+03 | -4.40E+03 | 4.23E+03 | -6.71E+04 | 6.24E+04 |
| 1/10 | 215. | -6.16E+03 | 5.93E+03 | -6.13E+03 | 5.91E+03 | -6.35E+04 | 5.69E+04 |

Table Q–110. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -68.4 | -1.38E+03 | 1.14E+03 | -1.37E+03 | 1.14E+03 | -7.82E+04 | 7.25E+04 |
| 1/20 | -354. | -4.52E+03 | 2.96E+03 | -4.50E+03 | 2.94E+03 | -8.28E+04 | 6.58E+04 |
| 1/15 | -579. | -5.96E+03 | 3.53E+03 | -5.90E+03 | 3.48E+03 | -7.98E+04 | 6.09E+04 |
| 1/10 | -889. | -8.25E+03 | 7.26E+03 | -8.09E+03 | 4.63E+03 | -7.20E+04 | 5.52E+04 |

Table Q–111. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–112. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

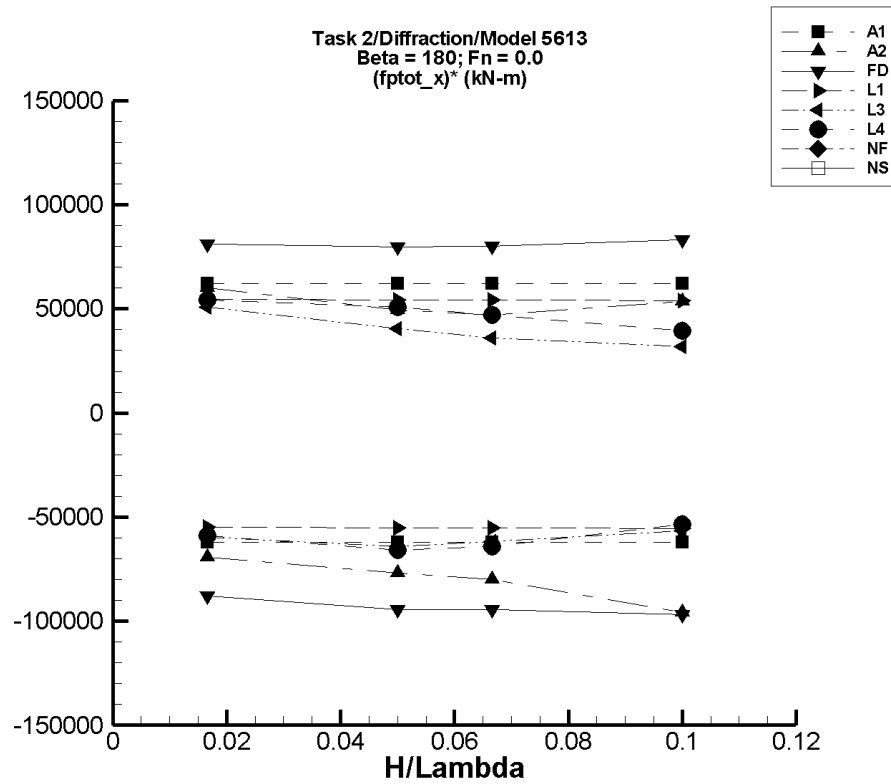


Figure Q-15. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–113. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 1.56 | -1.04E+03 | 1.05E+03 | -1.03E+03 | 1.04E+03 | -6.20E+04 | 6.21E+04 |
| 1/20 | 4.68 | -3.13E+03 | 3.15E+03 | -3.10E+03 | 3.12E+03 | -6.21E+04 | 6.23E+04 |
| 1/15 | 6.25 | -4.18E+03 | 4.20E+03 | -4.14E+03 | 4.16E+03 | -6.22E+04 | 6.23E+04 |
| 1/10 | 9.37 | -6.28E+03 | 6.31E+03 | -6.21E+03 | 6.24E+03 | -6.22E+04 | 6.23E+04 |

Table Q–114. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 26.6 | -1.14E+03 | 1.04E+03 | -1.13E+03 | 1.03E+03 | -6.91E+04 | 6.00E+04 |
| 1/20 | 84.1 | -4.49E+03 | 2.59E+03 | -3.76E+03 | 2.55E+03 | -7.70E+04 | 4.93E+04 |
| 1/15 | 126. | -5.34E+03 | 3.30E+03 | -5.20E+03 | 3.27E+03 | -7.99E+04 | 4.71E+04 |
| 1/10 | 439. | -9.44E+03 | 6.26E+03 | -9.13E+03 | 5.80E+03 | -9.57E+04 | 5.36E+04 |

Table Q–115. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -8.47 | -1.48E+03 | 1.36E+03 | -1.47E+03 | 1.34E+03 | -8.80E+04 | 8.12E+04 |
| 1/20 | 2.89 | -4.82E+03 | 4.03E+03 | -4.72E+03 | 3.99E+03 | -9.44E+04 | 7.98E+04 |
| 1/15 | 12.8 | -6.41E+03 | 5.40E+03 | -6.29E+03 | 5.35E+03 | -9.46E+04 | 8.00E+04 |
| 1/10 | 32.4 | -9.86E+03 | 8.46E+03 | -9.66E+03 | 8.34E+03 | -9.69E+04 | 8.31E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-116. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 13.6 | -906. | 927. | -902. | 924. | -5.50E+04 | 5.46E+04 |
| 1/20 | 117. | -2.65E+03 | 2.85E+03 | -2.64E+03 | 2.84E+03 | -5.52E+04 | 5.44E+04 |
| 1/15 | 208. | -3.50E+03 | 3.84E+03 | -3.48E+03 | 3.82E+03 | -5.53E+04 | 5.42E+04 |
| 1/10 | 465. | -5.12E+03 | 5.88E+03 | -5.10E+03 | 5.87E+03 | -5.56E+04 | 5.40E+04 |

Table Q-117. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -25.0 | -1.02E+03 | 826. | -1.02E+03 | 823. | -5.97E+04 | 5.09E+04 |
| 1/20 | 89.4 | -3.16E+03 | 2.12E+03 | -3.12E+03 | 2.12E+03 | -6.43E+04 | 4.06E+04 |
| 1/15 | 186. | -3.98E+03 | 2.60E+03 | -3.94E+03 | 2.59E+03 | -6.19E+04 | 3.61E+04 |
| 1/10 | 451. | -5.27E+03 | 3.66E+03 | -5.21E+03 | 3.65E+03 | -5.66E+04 | 3.19E+04 |

Table Q-118. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -50.3 | -1.04E+03 | 867. | -1.03E+03 | 855. | -5.90E+04 | 5.43E+04 |
| 1/20 | -219. | -3.65E+03 | 2.44E+03 | -3.51E+03 | 2.32E+03 | -6.58E+04 | 5.07E+04 |
| 1/15 | -346. | -4.67E+03 | 3.00E+03 | -4.62E+03 | 2.78E+03 | -6.42E+04 | 4.69E+04 |
| 1/10 | -513. | -6.81E+03 | 5.26E+03 | -5.86E+03 | 3.42E+03 | -5.35E+04 | 3.94E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–119. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–120. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

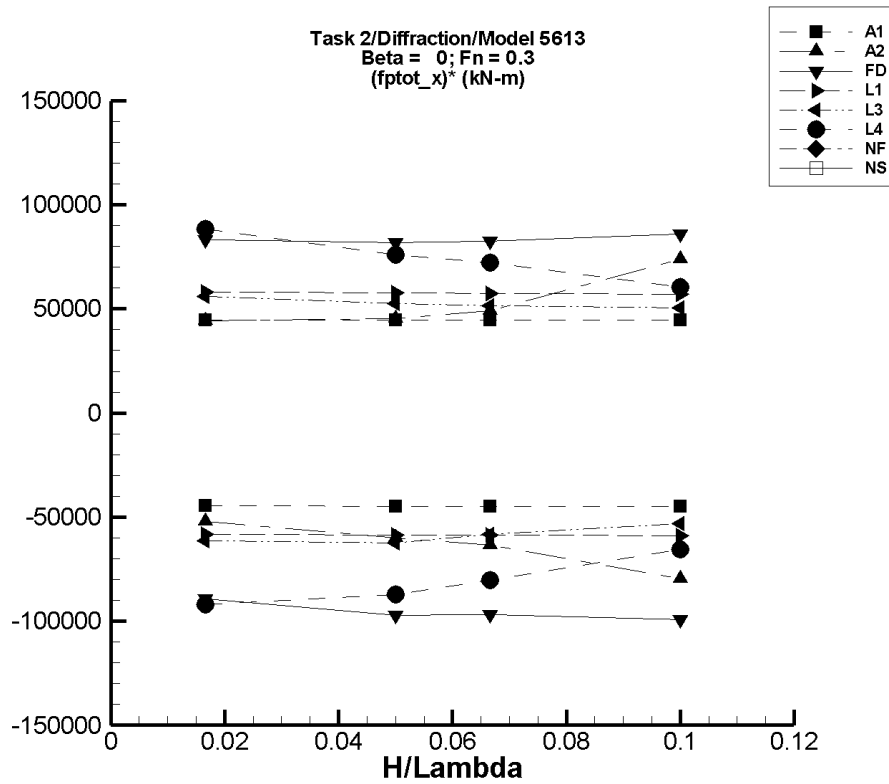


Figure Q-16. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-121. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.206 | -745. | 742. | -744. | 742. | -4.47E+04 | 4.45E+04 |
| 1/20 | 0.620 | -2.24E+03 | 2.23E+03 | -2.24E+03 | 2.23E+03 | -4.48E+04 | 4.46E+04 |
| 1/15 | 0.827 | -2.99E+03 | 2.98E+03 | -2.99E+03 | 2.98E+03 | -4.48E+04 | 4.47E+04 |
| 1/10 | 1.24 | -4.49E+03 | 4.47E+03 | -4.48E+03 | 4.47E+03 | -4.48E+04 | 4.47E+04 |

Table Q-122. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 25.0 | -860. | 773. | -846. | 765. | -5.22E+04 | 4.44E+04 |
| 1/20 | 84.2 | -2.99E+03 | 2.36E+03 | -2.92E+03 | 2.36E+03 | -6.01E+04 | 4.54E+04 |
| 1/15 | 111. | -4.21E+03 | 3.38E+03 | -4.13E+03 | 3.38E+03 | -6.36E+04 | 4.90E+04 |
| 1/10 | 432. | -7.60E+03 | 7.89E+03 | -7.53E+03 | 7.82E+03 | -7.96E+04 | 7.39E+04 |

Table Q-123. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -8.78 | -1.49E+03 | 1.38E+03 | -1.49E+03 | 1.38E+03 | -8.92E+04 | 8.31E+04 |
| 1/20 | 2.40 | -4.86E+03 | 4.10E+03 | -4.85E+03 | 4.10E+03 | -9.71E+04 | 8.19E+04 |
| 1/15 | 9.15 | -6.45E+03 | 5.50E+03 | -6.45E+03 | 5.50E+03 | -9.68E+04 | 8.24E+04 |
| 1/10 | 21.3 | -9.92E+03 | 8.63E+03 | -9.91E+03 | 8.62E+03 | -9.93E+04 | 8.60E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–124. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -26.9 | -997. | 939. | -996. | 939. | -5.82E+04 | 5.79E+04 |
| 1/20 | 94.2 | -2.83E+03 | 2.98E+03 | -2.83E+03 | 2.98E+03 | -5.85E+04 | 5.76E+04 |
| 1/15 | 201. | -3.71E+03 | 4.03E+03 | -3.71E+03 | 4.03E+03 | -5.86E+04 | 5.75E+04 |
| 1/10 | 506. | -5.39E+03 | 6.22E+03 | -5.39E+03 | 6.22E+03 | -5.89E+04 | 5.72E+04 |

Table Q–125. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -65.3 | -1.09E+03 | 867. | -1.09E+03 | 867. | -6.14E+04 | 5.59E+04 |
| 1/20 | 63.1 | -3.06E+03 | 2.69E+03 | -3.06E+03 | 2.69E+03 | -6.25E+04 | 5.25E+04 |
| 1/15 | 172. | -3.73E+03 | 3.60E+03 | -3.72E+03 | 3.60E+03 | -5.84E+04 | 5.14E+04 |
| 1/10 | 475. | -4.84E+03 | 5.52E+03 | -4.84E+03 | 5.52E+03 | -5.31E+04 | 5.04E+04 |

Table Q–126. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 146. | -1.40E+03 | 1.68E+03 | -1.39E+03 | 1.62E+03 | -9.20E+04 | 8.83E+04 |
| 1/20 | 576. | -3.82E+03 | 4.44E+03 | -3.79E+03 | 4.38E+03 | -8.72E+04 | 7.60E+04 |
| 1/15 | 713. | -4.83E+03 | 5.65E+03 | -4.64E+03 | 5.53E+03 | -8.03E+04 | 7.22E+04 |
| 1/10 | 982. | -6.00E+03 | 7.59E+03 | -5.58E+03 | 7.04E+03 | -6.56E+04 | 6.05E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–127. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–128. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

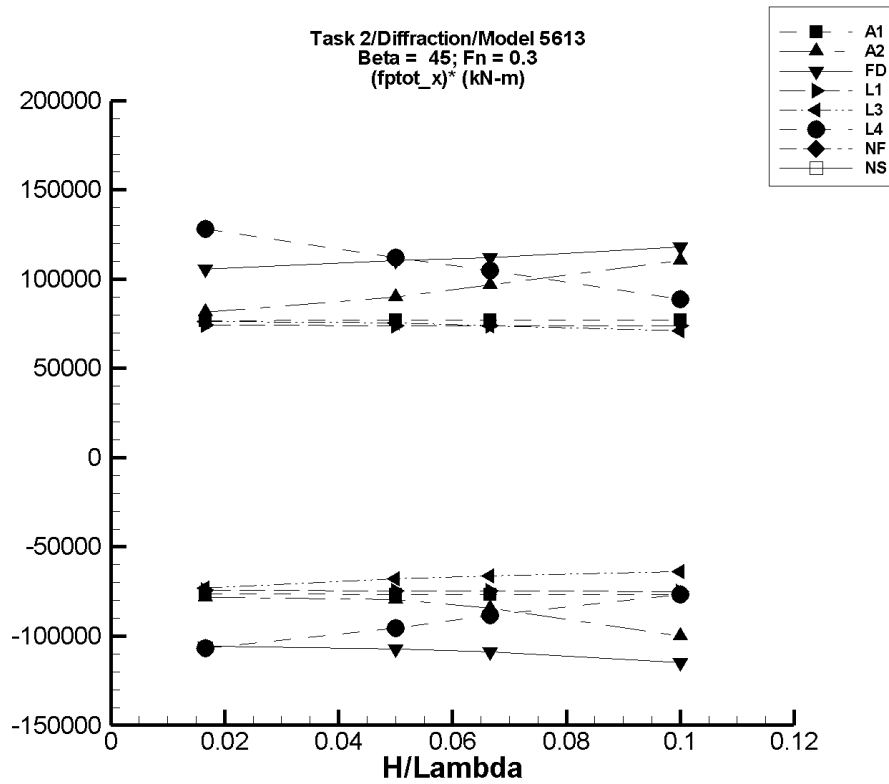


Figure Q-17. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–129. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 3.63 | -1.27E+03 | 1.29E+03 | -1.27E+03 | 1.28E+03 | -7.63E+04 | 7.67E+04 |
| 1/20 | 10.9 | -3.82E+03 | 3.87E+03 | -3.82E+03 | 3.86E+03 | -7.65E+04 | 7.69E+04 |
| 1/15 | 14.6 | -5.11E+03 | 5.16E+03 | -5.09E+03 | 5.15E+03 | -7.66E+04 | 7.70E+04 |
| 1/10 | 21.9 | -7.66E+03 | 7.74E+03 | -7.64E+03 | 7.72E+03 | -7.66E+04 | 7.70E+04 |

Table Q–130. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 26.8 | -1.28E+03 | 1.39E+03 | -1.28E+03 | 1.38E+03 | -7.82E+04 | 8.13E+04 |
| 1/20 | 80.3 | -3.90E+03 | 4.58E+03 | -3.90E+03 | 4.57E+03 | -7.95E+04 | 8.97E+04 |
| 1/15 | 114. | -5.53E+03 | 6.64E+03 | -5.51E+03 | 6.56E+03 | -8.44E+04 | 9.66E+04 |
| 1/10 | 168. | -9.85E+03 | 1.14E+04 | -9.83E+03 | 1.12E+04 | -1.00E+05 | 1.10E+05 |

Table Q–131. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -8.97 | -1.78E+03 | 1.76E+03 | -1.77E+03 | 1.75E+03 | -1.06E+05 | 1.06E+05 |
| 1/20 | -8.10 | -5.39E+03 | 5.52E+03 | -5.38E+03 | 5.50E+03 | -1.07E+05 | 1.10E+05 |
| 1/15 | -7.31 | -7.28E+03 | 7.48E+03 | -7.26E+03 | 7.46E+03 | -1.09E+05 | 1.12E+05 |
| 1/10 | -2.60 | -1.15E+04 | 1.18E+04 | -1.15E+04 | 1.18E+04 | -1.15E+05 | 1.18E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–132. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -29.1 | -1.27E+03 | 1.21E+03 | -1.27E+03 | 1.21E+03 | -7.43E+04 | 7.41E+04 |
| 1/20 | 70.3 | -3.66E+03 | 3.77E+03 | -3.66E+03 | 3.77E+03 | -7.46E+04 | 7.39E+04 |
| 1/15 | 157. | -4.83E+03 | 5.08E+03 | -4.83E+03 | 5.08E+03 | -7.47E+04 | 7.38E+04 |
| 1/10 | 405. | -7.11E+03 | 7.79E+03 | -7.10E+03 | 7.78E+03 | -7.51E+04 | 7.38E+04 |

Table Q–133. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -67.8 | -1.29E+03 | 1.20E+03 | -1.29E+03 | 1.20E+03 | -7.32E+04 | 7.61E+04 |
| 1/20 | 33.8 | -3.37E+03 | 3.81E+03 | -3.37E+03 | 3.81E+03 | -6.80E+04 | 7.55E+04 |
| 1/15 | 121. | -4.29E+03 | 5.05E+03 | -4.29E+03 | 5.05E+03 | -6.61E+04 | 7.39E+04 |
| 1/10 | 366. | -6.03E+03 | 7.46E+03 | -6.02E+03 | 7.46E+03 | -6.39E+04 | 7.09E+04 |

Table Q–134. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 160. | -1.64E+03 | 2.29E+03 | -1.62E+03 | 2.29E+03 | -1.07E+05 | 1.28E+05 |
| 1/20 | 609. | -4.26E+03 | 6.30E+03 | -4.18E+03 | 6.21E+03 | -9.57E+04 | 1.12E+05 |
| 1/15 | 763. | -5.29E+03 | 7.76E+03 | -5.12E+03 | 7.73E+03 | -8.83E+04 | 1.05E+05 |
| 1/10 | 1.07E+03 | -6.81E+03 | 1.17E+04 | -6.60E+03 | 9.93E+03 | -7.67E+04 | 8.86E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–135. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–136. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

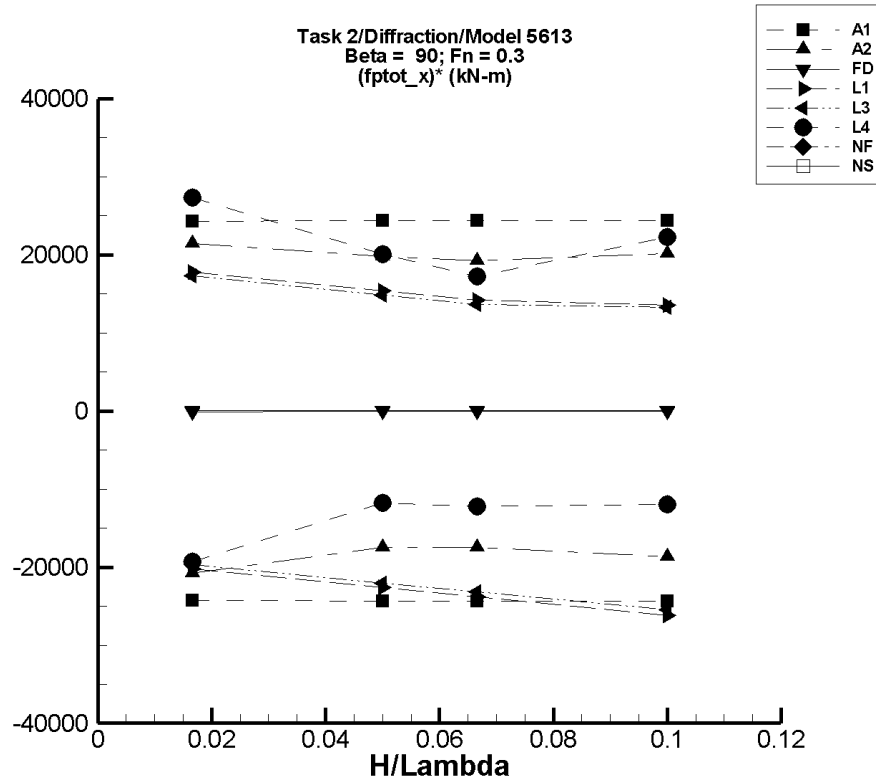


Figure Q-18. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–137. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.125 | -409. | 410. | -405. | 405. | -2.43E+04 | 2.43E+04 |
| 1/20 | 0.377 | -1.23E+03 | 1.23E+03 | -1.22E+03 | 1.22E+03 | -2.43E+04 | 2.44E+04 |
| 1/15 | 0.503 | -1.64E+03 | 1.65E+03 | -1.62E+03 | 1.63E+03 | -2.44E+04 | 2.44E+04 |
| 1/10 | 0.755 | -2.47E+03 | 2.47E+03 | -2.44E+03 | 2.44E+03 | -2.44E+04 | 2.44E+04 |

Table Q–138. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 24.2 | -324. | 385. | -322. | 381. | -2.08E+04 | 2.14E+04 |
| 1/20 | 51.0 | -1.61E+03 | 1.08E+03 | -824. | 1.04E+03 | -1.75E+04 | 1.98E+04 |
| 1/15 | 96.0 | -1.07E+03 | 1.40E+03 | -1.07E+03 | 1.38E+03 | -1.75E+04 | 1.92E+04 |
| 1/10 | 153. | -1.79E+03 | 2.19E+03 | -1.71E+03 | 2.17E+03 | -1.87E+04 | 2.01E+04 |

Table Q–139. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -9.08 | -10.7 | -8.02 | -10.5 | -8.03 | -87.9 | 63.2 |
| 1/20 | -7.28 | -9.26 | -4.90 | -8.70 | -4.96 | -28.4 | 46.4 |
| 1/15 | -6.05 | -9.04 | -0.689 | -8.39 | -0.811 | -35.0 | 78.6 |
| 1/10 | -4.72 | -8.60 | 0.437 | -7.91 | 0.125 | -31.9 | 48.4 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-140. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -36.6 | -374. | 260. | -373. | 259. | -2.02E+04 | 1.78E+04 |
| 1/20 | 3.34 | -1.13E+03 | 772. | -1.13E+03 | 771. | -2.26E+04 | 1.53E+04 |
| 1/15 | 38.2 | -1.56E+03 | 983. | -1.55E+03 | 983. | -2.38E+04 | 1.42E+04 |
| 1/10 | 138. | -2.50E+03 | 1.49E+03 | -2.48E+03 | 1.49E+03 | -2.62E+04 | 1.35E+04 |

Table Q-141. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -75.2 | -405. | 214. | -403. | 213. | -1.97E+04 | 1.73E+04 |
| 1/20 | -34.6 | -1.14E+03 | 706. | -1.14E+03 | 706. | -2.20E+04 | 1.48E+04 |
| 1/15 | -0.304 | -1.55E+03 | 911. | -1.55E+03 | 910. | -2.32E+04 | 1.37E+04 |
| 1/10 | 96.4 | -2.47E+03 | 1.43E+03 | -2.45E+03 | 1.42E+03 | -2.55E+04 | 1.33E+04 |

Table Q-142. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 154. | -183. | 616. | -168. | 610. | -1.93E+04 | 2.73E+04 |
| 1/20 | 545. | -136. | 1.61E+03 | -43.4 | 1.55E+03 | -1.18E+04 | 2.01E+04 |
| 1/15 | 668. | -169. | 1.93E+03 | -148. | 1.82E+03 | -1.22E+04 | 1.72E+04 |
| 1/10 | 959. | -4.45E+03 | 6.70E+03 | -234. | 3.19E+03 | -1.19E+04 | 2.23E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–143. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–144. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

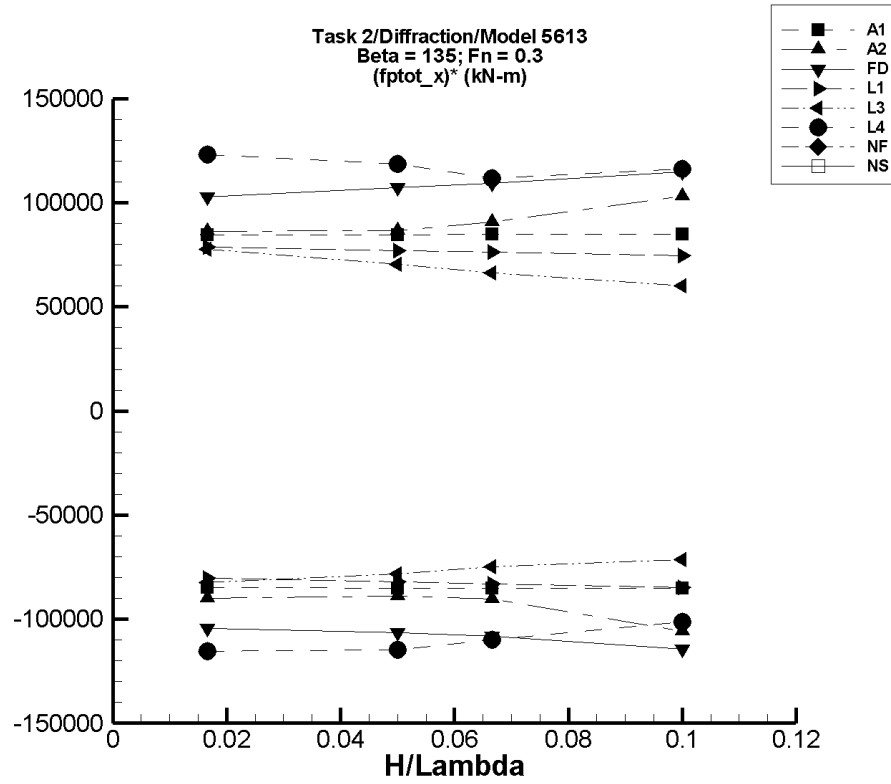


Figure Q-19. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-145. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.68E-03 | -1.45E+03 | 1.44E+03 | -1.41E+03 | 1.41E+03 | -8.48E+04 | 8.45E+04 |
| 1/20 | 4.69E-03 | -4.35E+03 | 4.34E+03 | -4.25E+03 | 4.24E+03 | -8.50E+04 | 8.47E+04 |
| 1/15 | 6.58E-03 | -5.81E+03 | 5.79E+03 | -5.67E+03 | 5.65E+03 | -8.51E+04 | 8.48E+04 |
| 1/10 | 9.97E-03 | -8.71E+03 | 8.69E+03 | -8.51E+03 | 8.48E+03 | -8.51E+04 | 8.48E+04 |

Table Q-146. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 24.1 | -1.52E+03 | 1.49E+03 | -1.47E+03 | 1.46E+03 | -8.99E+04 | 8.61E+04 |
| 1/20 | 66.0 | -4.46E+03 | 4.52E+03 | -4.38E+03 | 4.40E+03 | -8.89E+04 | 8.67E+04 |
| 1/15 | 98.9 | -6.04E+03 | 6.32E+03 | -5.92E+03 | 6.15E+03 | -9.03E+04 | 9.07E+04 |
| 1/10 | 155. | -1.05E+04 | 1.08E+04 | -1.04E+04 | 1.05E+04 | -1.06E+05 | 1.03E+05 |

Table Q-147. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -9.30 | -1.76E+03 | 1.75E+03 | -1.75E+03 | 1.71E+03 | -1.05E+05 | 1.03E+05 |
| 1/20 | -12.0 | -5.35E+03 | 5.50E+03 | -5.33E+03 | 5.36E+03 | -1.06E+05 | 1.07E+05 |
| 1/15 | -16.4 | -7.24E+03 | 7.45E+03 | -7.22E+03 | 7.26E+03 | -1.08E+05 | 1.09E+05 |
| 1/10 | -25.9 | -1.15E+04 | 1.18E+04 | -1.15E+04 | 1.15E+04 | -1.14E+05 | 1.15E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–148. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -32.5 | -1.38E+03 | 1.29E+03 | -1.37E+03 | 1.28E+03 | -8.04E+04 | 7.87E+04 |
| 1/20 | 40.2 | -4.10E+03 | 3.92E+03 | -4.06E+03 | 3.89E+03 | -8.21E+04 | 7.70E+04 |
| 1/15 | 104. | -5.48E+03 | 5.22E+03 | -5.43E+03 | 5.18E+03 | -8.30E+04 | 7.62E+04 |
| 1/10 | 285. | -8.27E+03 | 7.80E+03 | -8.18E+03 | 7.74E+03 | -8.47E+04 | 7.46E+04 |

Table Q–149. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -71.0 | -1.46E+03 | 1.24E+03 | -1.44E+03 | 1.22E+03 | -8.24E+04 | 7.78E+04 |
| 1/20 | 3.22 | -3.94E+03 | 3.54E+03 | -3.91E+03 | 3.52E+03 | -7.82E+04 | 7.03E+04 |
| 1/15 | 64.9 | -4.97E+03 | 4.50E+03 | -4.93E+03 | 4.48E+03 | -7.48E+04 | 6.62E+04 |
| 1/10 | 238. | -6.97E+03 | 6.28E+03 | -6.90E+03 | 6.24E+03 | -7.14E+04 | 6.00E+04 |

Table Q–150. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 157. | -1.79E+03 | 2.23E+03 | -1.77E+03 | 2.21E+03 | -1.15E+05 | 1.23E+05 |
| 1/20 | 551. | -5.25E+03 | 6.60E+03 | -5.18E+03 | 6.48E+03 | -1.15E+05 | 1.19E+05 |
| 1/15 | 700. | -6.77E+03 | 8.26E+03 | -6.63E+03 | 8.15E+03 | -1.10E+05 | 1.12E+05 |
| 1/10 | 1.06E+03 | -9.20E+03 | 1.67E+04 | -9.08E+03 | 1.27E+04 | -1.01E+05 | 1.16E+05 |

Table Q–151. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–152. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

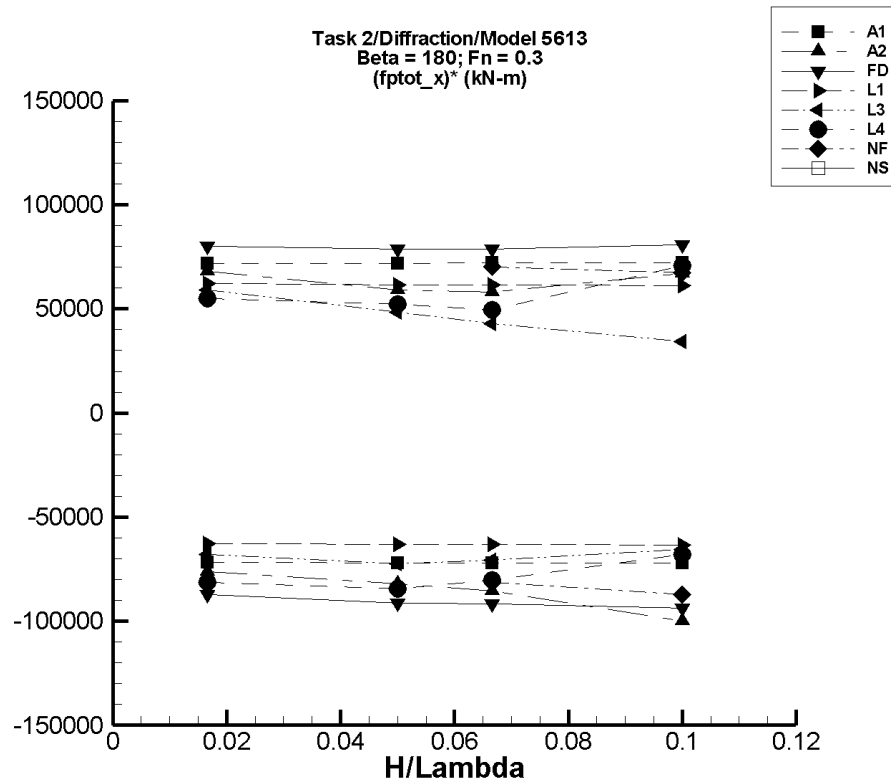


Figure Q-20. Minimum and maximum of filtered $(F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–153. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -2.21 | -1.24E+03 | 1.23E+03 | -1.20E+03 | 1.19E+03 | -7.18E+04 | 7.18E+04 |
| 1/20 | -6.64 | -3.72E+03 | 3.70E+03 | -3.60E+03 | 3.59E+03 | -7.19E+04 | 7.19E+04 |
| 1/15 | -8.86 | -4.96E+03 | 4.94E+03 | -4.81E+03 | 4.79E+03 | -7.20E+04 | 7.20E+04 |
| 1/10 | -13.3 | -7.45E+03 | 7.42E+03 | -7.22E+03 | 7.19E+03 | -7.20E+04 | 7.20E+04 |

Table Q–154. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 22.2 | -1.31E+03 | 1.20E+03 | -1.25E+03 | 1.15E+03 | -7.62E+04 | 6.79E+04 |
| 1/20 | 71.8 | -4.25E+03 | 3.10E+03 | -4.03E+03 | 3.03E+03 | -8.20E+04 | 5.92E+04 |
| 1/15 | 97.0 | -6.00E+03 | 3.98E+03 | -5.59E+03 | 3.96E+03 | -8.54E+04 | 5.79E+04 |
| 1/10 | 426. | -1.04E+04 | 7.32E+03 | -9.58E+03 | 7.13E+03 | -1.00E+05 | 6.71E+04 |

Table Q–155. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------|------------------------------------------|--------------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------|------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -7.23 | -1.49E+03 | 1.36E+03 | -1.46E+03 | 1.33E+03 | -8.71E+04 | 8.00E+04 |
| 1/20 | 4.09 | -4.86E+03 | 4.04E+03 | -4.57E+03 | 3.94E+03 | -9.14E+04 | 7.87E+04 |
| 1/15 | 12.7 | -6.46E+03 | 5.40E+03 | -6.10E+03 | 5.25E+03 | -9.17E+04 | 7.86E+04 |
| 1/10 | 29.9 | -9.95E+03 | 8.45E+03 | -9.34E+03 | 8.12E+03 | -9.37E+04 | 8.09E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–156. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -24.1 | -1.08E+03 | 1.02E+03 | -1.07E+03 | 1.01E+03 | -6.26E+04 | 6.20E+04 |
| 1/20 | 103. | -3.08E+03 | 3.22E+03 | -3.05E+03 | 3.19E+03 | -6.30E+04 | 6.17E+04 |
| 1/15 | 212. | -4.05E+03 | 4.36E+03 | -4.00E+03 | 4.31E+03 | -6.32E+04 | 6.15E+04 |
| 1/10 | 524. | -5.91E+03 | 6.70E+03 | -5.83E+03 | 6.63E+03 | -6.36E+04 | 6.11E+04 |

Table Q–157. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | -62.4 | -1.21E+03 | 930. | -1.19E+03 | 920. | -6.78E+04 | 5.90E+04 |
| 1/20 | 75.2 | -3.63E+03 | 2.51E+03 | -3.54E+03 | 2.50E+03 | -7.24E+04 | 4.84E+04 |
| 1/15 | 188. | -4.63E+03 | 3.07E+03 | -4.51E+03 | 3.05E+03 | -7.05E+04 | 4.29E+04 |
| 1/10 | 501. | -6.23E+03 | 3.97E+03 | -6.06E+03 | 3.95E+03 | -6.56E+04 | 3.45E+04 |

Table Q–158. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | F_x^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 117. | -1.40E+03 | 1.22E+03 | -1.24E+03 | 1.03E+03 | -8.15E+04 | 5.50E+04 |
| 1/20 | 343. | -4.48E+03 | 3.99E+03 | -3.88E+03 | 2.95E+03 | -8.45E+04 | 5.21E+04 |
| 1/15 | 483. | -5.33E+03 | 5.06E+03 | -4.86E+03 | 3.78E+03 | -8.02E+04 | 4.94E+04 |
| 1/10 | 932. | -6.33E+03 | 1.63E+04 | -5.87E+03 | 8.01E+03 | -6.81E+04 | 7.08E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–159. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | -1.05E+03 | -5.32E+03 | 2.61E+03 | -5.04E+03 | 2.46E+03 | -7.98E+04 | 7.01E+04 |
| 1/15 | -1.46E+03 | -7.28E+03 | 3.33E+03 | -6.88E+03 | 3.23E+03 | -8.14E+04 | 7.02E+04 |
| 1/10 | -2.09E+03 | -1.09E+04 | 4.75E+03 | -1.08E+04 | 4.66E+03 | -8.72E+04 | 6.75E+04 |

Table Q–160. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_x^{ptot} | | Filtered F_x^{ptot} | | Filtered $(F_x^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

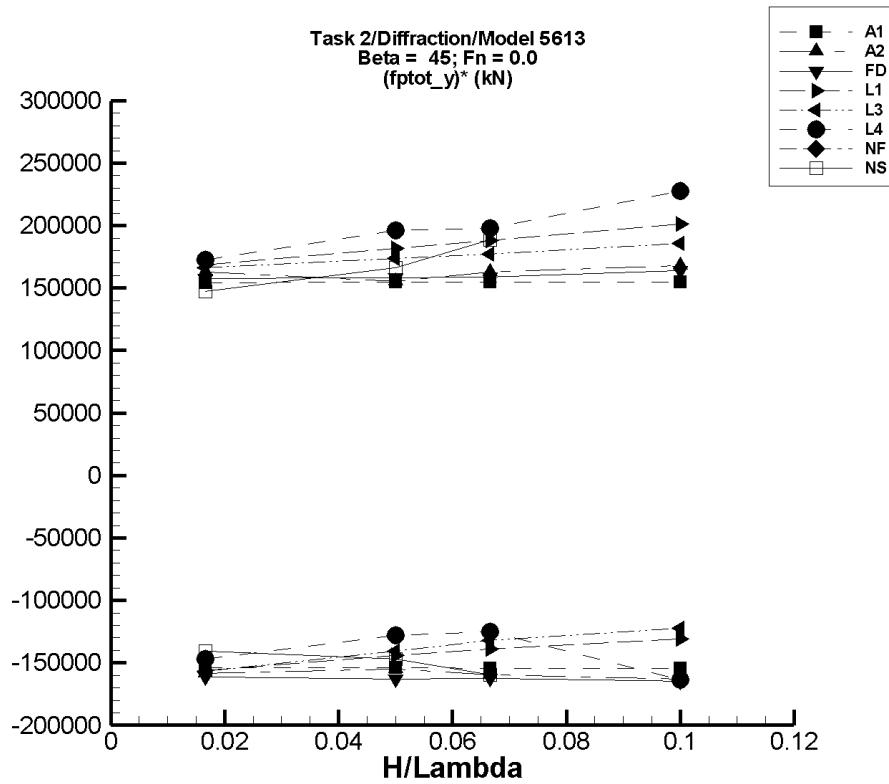


Figure Q-21. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-161. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.26 | -2.59E+03 | 2.59E+03 | -2.57E+03 | 2.57E+03 | -1.54E+05 | 1.54E+05 |
| 1/20 | -9.82 | -7.79E+03 | 7.79E+03 | -7.72E+03 | 7.72E+03 | -1.54E+05 | 1.55E+05 |
| 1/15 | -13.1 | -1.04E+04 | 1.04E+04 | -1.03E+04 | 1.03E+04 | -1.54E+05 | 1.55E+05 |
| 1/10 | -19.7 | -1.56E+04 | 1.56E+04 | -1.55E+04 | 1.55E+04 | -1.54E+05 | 1.55E+05 |

Table Q-162. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.17 | -2.68E+03 | 2.74E+03 | -2.64E+03 | 2.71E+03 | -1.58E+05 | 1.63E+05 |
| 1/20 | 10.0 | -7.80E+03 | 1.27E+04 | -7.74E+03 | 7.77E+03 | -1.55E+05 | 1.55E+05 |
| 1/15 | 25.7 | -1.07E+04 | 1.10E+04 | -1.06E+04 | 1.09E+04 | -1.59E+05 | 1.63E+05 |
| 1/10 | 465. | -1.78E+04 | 2.67E+04 | -1.58E+04 | 1.72E+04 | -1.63E+05 | 1.68E+05 |

Table Q-163. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.874 | -2.72E+03 | 2.66E+03 | -2.69E+03 | 2.63E+03 | -1.62E+05 | 1.58E+05 |
| 1/20 | -7.60 | -8.24E+03 | 7.97E+03 | -8.17E+03 | 7.90E+03 | -1.63E+05 | 1.58E+05 |
| 1/15 | -16.2 | -1.09E+04 | 1.06E+04 | -1.08E+04 | 1.06E+04 | -1.62E+05 | 1.59E+05 |
| 1/10 | -31.8 | -1.67E+04 | 1.63E+04 | -1.65E+04 | 1.63E+04 | -1.65E+05 | 1.64E+05 |

Table Q-164. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -201. | -2.81E+03 | 2.62E+03 | -2.80E+03 | 2.61E+03 | -1.56E+05 | 1.69E+05 |
| 1/20 | -1.81E+03 | -9.03E+03 | 7.32E+03 | -9.01E+03 | 7.27E+03 | -1.44E+05 | 1.82E+05 |
| 1/15 | -3.21E+03 | -1.25E+04 | 9.39E+03 | -1.25E+04 | 9.33E+03 | -1.39E+05 | 1.88E+05 |
| 1/10 | -7.22E+03 | -2.04E+04 | 1.30E+04 | -2.03E+04 | 1.29E+04 | -1.31E+05 | 2.01E+05 |

Table Q-165. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -201. | -2.82E+03 | 2.58E+03 | -2.82E+03 | 2.57E+03 | -1.57E+05 | 1.66E+05 |
| 1/20 | -1.81E+03 | -8.86E+03 | 6.89E+03 | -8.84E+03 | 6.88E+03 | -1.41E+05 | 1.74E+05 |
| 1/15 | -3.22E+03 | -1.20E+04 | 8.59E+03 | -1.20E+04 | 8.59E+03 | -1.32E+05 | 1.77E+05 |
| 1/10 | -7.22E+03 | -1.95E+04 | 1.14E+04 | -1.94E+04 | 1.14E+04 | -1.22E+05 | 1.86E+05 |

Table Q-166. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 78.1 | -2.46E+03 | 3.03E+03 | -2.37E+03 | 2.95E+03 | -1.47E+05 | 1.72E+05 |
| 1/20 | 812. | -6.15E+03 | 1.10E+04 | -5.60E+03 | 1.06E+04 | -1.28E+05 | 1.96E+05 |
| 1/15 | 1.72E+03 | -7.56E+03 | 1.55E+04 | -6.62E+03 | 1.49E+04 | -1.25E+05 | 1.98E+05 |
| 1/10 | 3.57E+03 | -1.40E+04 | 2.78E+04 | -1.28E+04 | 2.63E+04 | -1.64E+05 | 2.28E+05 |

Table Q-167. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-168. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 133. | -2.24E+03 | 2.60E+03 | -2.21E+03 | 2.59E+03 | -1.41E+05 | 1.47E+05 |
| 1/20 | 1.13E+03 | -6.34E+03 | 1.03E+04 | -6.22E+03 | 9.46E+03 | -1.47E+05 | 1.67E+05 |
| 1/15 | 1.97E+03 | -8.76E+03 | 1.49E+04 | -8.67E+03 | 1.45E+04 | -1.60E+05 | 1.89E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

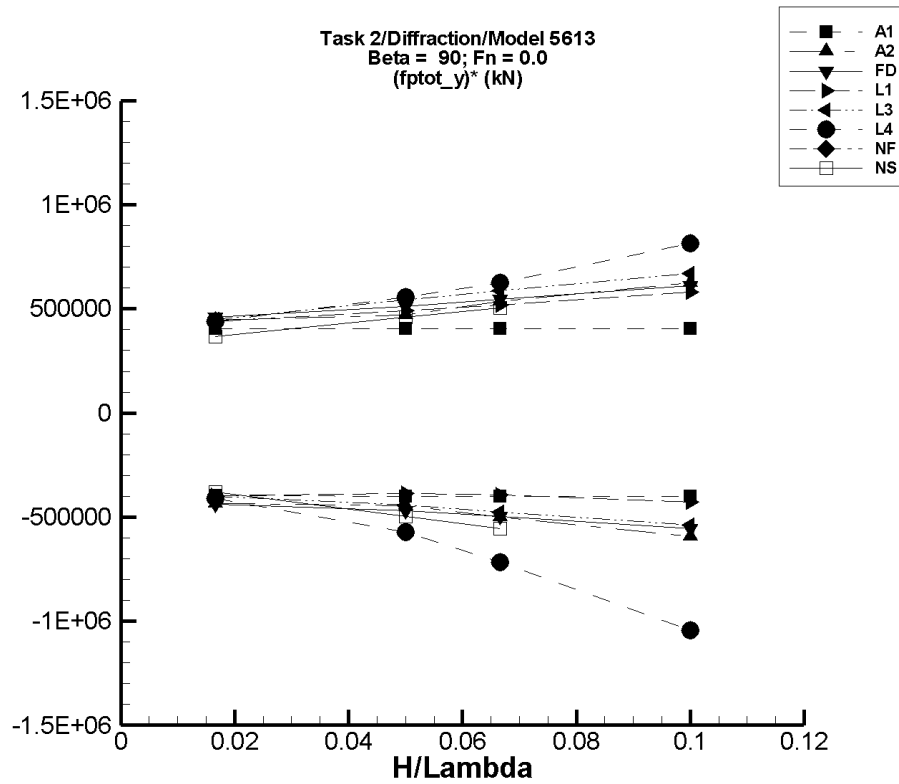


Figure Q-22. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-169. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -5.68 | -6.75E+03 | 6.73E+03 | -6.64E+03 | 6.74E+03 | -3.98E+05 | 4.05E+05 |
| 1/20 | -17.1 | -2.03E+04 | 2.02E+04 | -2.00E+04 | 2.03E+04 | -3.99E+05 | 4.06E+05 |
| 1/15 | -22.8 | -2.71E+04 | 2.70E+04 | -2.67E+04 | 2.71E+04 | -4.00E+05 | 4.06E+05 |
| 1/10 | -34.2 | -4.06E+04 | 4.05E+04 | -4.00E+04 | 4.06E+04 | -4.00E+05 | 4.06E+05 |

Table Q-170. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -8.22 | -7.41E+03 | 7.57E+03 | -7.27E+03 | 7.43E+03 | -4.36E+05 | 4.46E+05 |
| 1/20 | 69.4 | -2.27E+04 | 2.37E+04 | -2.22E+04 | 2.36E+04 | -4.45E+05 | 4.70E+05 |
| 1/15 | 5.36 | -3.44E+04 | 3.67E+04 | -3.34E+04 | 3.56E+04 | -5.02E+05 | 5.34E+05 |
| 1/10 | 68.1 | -6.08E+04 | 6.42E+04 | -5.94E+04 | 6.27E+04 | -5.95E+05 | 6.27E+05 |

Table Q-171. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.12 | -7.40E+03 | 7.73E+03 | -7.33E+03 | 7.64E+03 | -4.39E+05 | 4.59E+05 |
| 1/20 | -22.2 | -2.39E+04 | 2.61E+04 | -2.36E+04 | 2.56E+04 | -4.71E+05 | 5.13E+05 |
| 1/15 | -35.7 | -3.37E+04 | 3.70E+04 | -3.31E+04 | 3.63E+04 | -4.96E+05 | 5.45E+05 |
| 1/10 | -108. | -5.68E+04 | 6.25E+04 | -5.55E+04 | 6.11E+04 | -5.54E+05 | 6.12E+05 |

Table Q-172. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -383. | -6.99E+03 | 6.94E+03 | -6.97E+03 | 6.92E+03 | -3.95E+05 | 4.38E+05 |
| 1/20 | -3.43E+03 | -2.28E+04 | 2.13E+04 | -2.27E+04 | 2.11E+04 | -3.86E+05 | 4.91E+05 |
| 1/15 | -6.10E+03 | -3.26E+04 | 2.88E+04 | -3.24E+04 | 2.86E+04 | -3.95E+05 | 5.20E+05 |
| 1/10 | -1.37E+04 | -5.69E+04 | 4.46E+04 | -5.66E+04 | 4.42E+04 | -4.29E+05 | 5.79E+05 |

Table Q-173. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -382. | -7.09E+03 | 7.16E+03 | -7.07E+03 | 7.12E+03 | -4.01E+05 | 4.50E+05 |
| 1/20 | -3.42E+03 | -2.57E+04 | 2.38E+04 | -2.56E+04 | 2.36E+04 | -4.43E+05 | 5.41E+05 |
| 1/15 | -6.08E+03 | -3.80E+04 | 3.33E+04 | -3.77E+04 | 3.30E+04 | -4.75E+05 | 5.86E+05 |
| 1/10 | -1.36E+04 | -6.78E+04 | 5.41E+04 | -6.74E+04 | 5.35E+04 | -5.37E+05 | 6.71E+05 |

Table Q-174. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 252. | -6.81E+03 | 7.99E+03 | -6.57E+03 | 7.57E+03 | -4.09E+05 | 4.39E+05 |
| 1/20 | 1.81E+03 | -2.75E+04 | 3.08E+04 | -2.69E+04 | 2.96E+04 | -5.74E+05 | 5.56E+05 |
| 1/15 | 3.31E+03 | -4.54E+04 | 4.66E+04 | -4.44E+04 | 4.49E+04 | -7.16E+05 | 6.24E+05 |
| 1/10 | 5.63E+03 | -1.01E+05 | 8.98E+04 | -9.87E+04 | 8.71E+04 | -1.04E+06 | 8.15E+05 |

Table Q-175. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-176. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 204. | -6.22E+03 | 6.42E+03 | -6.14E+03 | 6.33E+03 | -3.80E+05 | 3.68E+05 |
| 1/20 | 1.71E+03 | -2.41E+04 | 2.58E+04 | -2.32E+04 | 2.47E+04 | -4.98E+05 | 4.60E+05 |
| 1/15 | 2.94E+03 | -3.51E+04 | 3.73E+04 | -3.42E+04 | 3.65E+04 | -5.57E+05 | 5.03E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

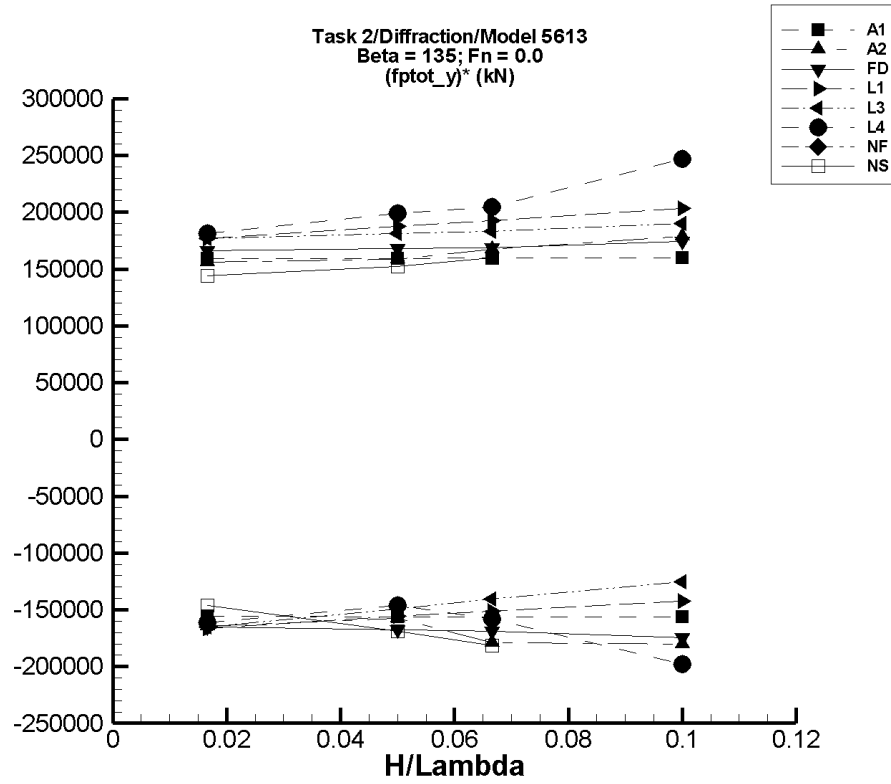


Figure Q-23. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-177. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.903 | -2.64E+03 | 2.67E+03 | -2.60E+03 | 2.65E+03 | -1.56E+05 | 1.59E+05 |
| 1/20 | -2.72 | -7.95E+03 | 8.02E+03 | -7.82E+03 | 7.97E+03 | -1.56E+05 | 1.59E+05 |
| 1/15 | -3.63 | -1.06E+04 | 1.07E+04 | -1.04E+04 | 1.06E+04 | -1.56E+05 | 1.60E+05 |
| 1/10 | -5.44 | -1.59E+04 | 1.61E+04 | -1.57E+04 | 1.60E+04 | -1.56E+05 | 1.60E+05 |

Table Q-178. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -7.35 | -2.83E+03 | 2.63E+03 | -2.75E+03 | 2.59E+03 | -1.64E+05 | 1.56E+05 |
| 1/20 | 8.89 | -8.35E+03 | 7.95E+03 | -7.85E+03 | 7.95E+03 | -1.57E+05 | 1.59E+05 |
| 1/15 | -134. | -1.86E+04 | 1.10E+04 | -1.21E+04 | 1.10E+04 | -1.79E+05 | 1.68E+05 |
| 1/10 | -69.1 | -1.83E+04 | 1.78E+04 | -1.81E+04 | 1.78E+04 | -1.80E+05 | 1.79E+05 |

Table Q–179. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.972 | -2.78E+03 | 2.80E+03 | -2.75E+03 | 2.77E+03 | -1.65E+05 | 1.66E+05 |
| 1/20 | -1.26 | -8.48E+03 | 8.48E+03 | -8.40E+03 | 8.39E+03 | -1.68E+05 | 1.68E+05 |
| 1/15 | 3.31 | -1.14E+04 | 1.14E+04 | -1.13E+04 | 1.12E+04 | -1.69E+05 | 1.69E+05 |
| 1/10 | 22.2 | -1.76E+04 | 1.76E+04 | -1.74E+04 | 1.75E+04 | -1.75E+05 | 1.74E+05 |

Table Q–180. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -181. | -2.96E+03 | 2.78E+03 | -2.95E+03 | 2.77E+03 | -1.66E+05 | 1.77E+05 |
| 1/20 | -1.61E+03 | -9.43E+03 | 7.81E+03 | -9.41E+03 | 7.76E+03 | -1.56E+05 | 1.88E+05 |
| 1/15 | -2.86E+03 | -1.30E+04 | 1.01E+04 | -1.29E+04 | 1.00E+04 | -1.51E+05 | 1.93E+05 |
| 1/10 | -6.43E+03 | -2.07E+04 | 1.40E+04 | -2.07E+04 | 1.39E+04 | -1.43E+05 | 2.04E+05 |

Table Q-181. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -181. | -2.94E+03 | 2.78E+03 | -2.93E+03 | 2.77E+03 | -1.65E+05 | 1.77E+05 |
| 1/20 | -1.61E+03 | -9.08E+03 | 7.49E+03 | -9.07E+03 | 7.45E+03 | -1.49E+05 | 1.81E+05 |
| 1/15 | -2.86E+03 | -1.22E+04 | 9.41E+03 | -1.22E+04 | 9.35E+03 | -1.40E+05 | 1.83E+05 |
| 1/10 | -6.43E+03 | -1.90E+04 | 1.26E+04 | -1.90E+04 | 1.26E+04 | -1.25E+05 | 1.90E+05 |

Table Q-182. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 103. | -2.63E+03 | 3.17E+03 | -2.59E+03 | 3.12E+03 | -1.61E+05 | 1.81E+05 |
| 1/20 | 917. | -6.70E+03 | 1.16E+04 | -6.41E+03 | 1.09E+04 | -1.47E+05 | 1.99E+05 |
| 1/15 | 1.82E+03 | -9.39E+03 | 1.60E+04 | -8.75E+03 | 1.55E+04 | -1.59E+05 | 2.05E+05 |
| 1/10 | 3.83E+03 | -2.02E+04 | 2.98E+04 | -1.60E+04 | 2.85E+04 | -1.98E+05 | 2.47E+05 |

Table Q–183. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–184. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 141. | -2.34E+03 | 2.57E+03 | -2.30E+03 | 2.54E+03 | -1.46E+05 | 1.44E+05 |
| 1/20 | 1.18E+03 | -8.03E+03 | 8.90E+03 | -7.25E+03 | 8.79E+03 | -1.69E+05 | 1.52E+05 |
| 1/15 | 2.05E+03 | -1.02E+04 | 1.28E+04 | -1.00E+04 | 1.27E+04 | -1.81E+05 | 1.60E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

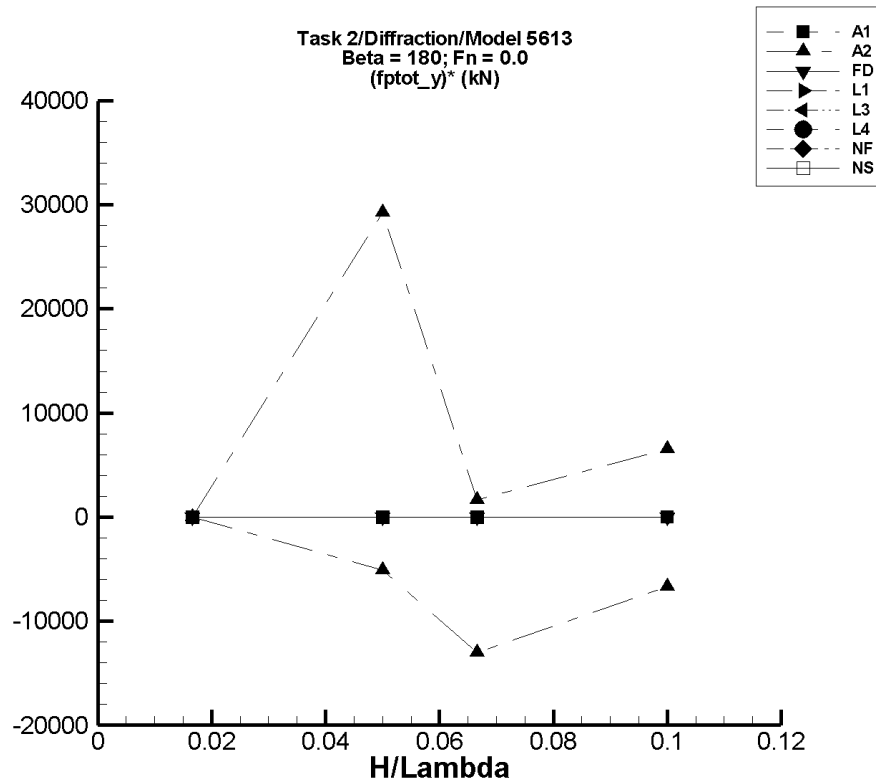


Figure Q-24. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–185. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.90E-05 | -3.08E-03 | 3.56E-03 | -3.05E-03 | 2.60E-03 | -0.185 | 0.154 |
| 1/20 | 8.73E-05 | -9.25E-03 | 1.07E-02 | -9.16E-03 | 7.83E-03 | -0.185 | 0.155 |
| 1/15 | 1.17E-04 | -1.24E-02 | 1.43E-02 | -1.22E-02 | 1.05E-02 | -0.185 | 0.155 |
| 1/10 | 1.75E-04 | -1.85E-02 | 2.15E-02 | -1.84E-02 | 1.57E-02 | -0.185 | 0.155 |

Table Q–186. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 4.03E-05 | -2.76E-03 | 2.45E-03 | -2.71E-03 | 2.33E-03 | -0.165 | 0.137 |
| 1/20 | 113. | -8.45E-03 | 1.18E+04 | -143. | 1.58E+03 | -5.12E+03 | 2.93E+04 |
| 1/15 | -31.4 | -6.75E+03 | 182. | -900. | 76.9 | -1.30E+04 | 1.63E+03 |
| 1/10 | 9.49 | -4.88E+03 | 4.85E+03 | -657. | 660. | -6.66E+03 | 6.51E+03 |

Table Q–187. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.05E-05 | -1.08E-03 | 1.31E-03 | -2.69E-04 | 2.27E-04 | -1.55E-02 | 1.43E-02 |
| 1/20 | -2.43E-05 | -3.19E-03 | 3.79E-03 | -7.94E-04 | 8.90E-04 | -1.54E-02 | 1.83E-02 |
| 1/15 | -3.64E-05 | -4.24E-03 | 4.99E-03 | -1.07E-03 | 1.33E-03 | -1.56E-02 | 2.05E-02 |
| 1/10 | -4.74E-05 | -6.30E-03 | 7.61E-03 | -1.60E-03 | 2.00E-03 | -1.55E-02 | 2.04E-02 |

Table Q–188. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–189. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–190. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–191. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–192. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -5.12E-05 | -2.35E-03 | 2.58E-03 | -9.03E-04 | 8.32E-04 | -5.11E-02 | 5.30E-02 |
| 1/20 | -7.65E-05 | -1.22E-02 | 1.01E-02 | -4.09E-03 | 3.77E-03 | -8.03E-02 | 7.69E-02 |
| 1/15 | -3.30E-04 | -7.08E-02 | 7.54E-02 | -3.49E-03 | 4.84E-03 | -4.75E-02 | 7.75E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

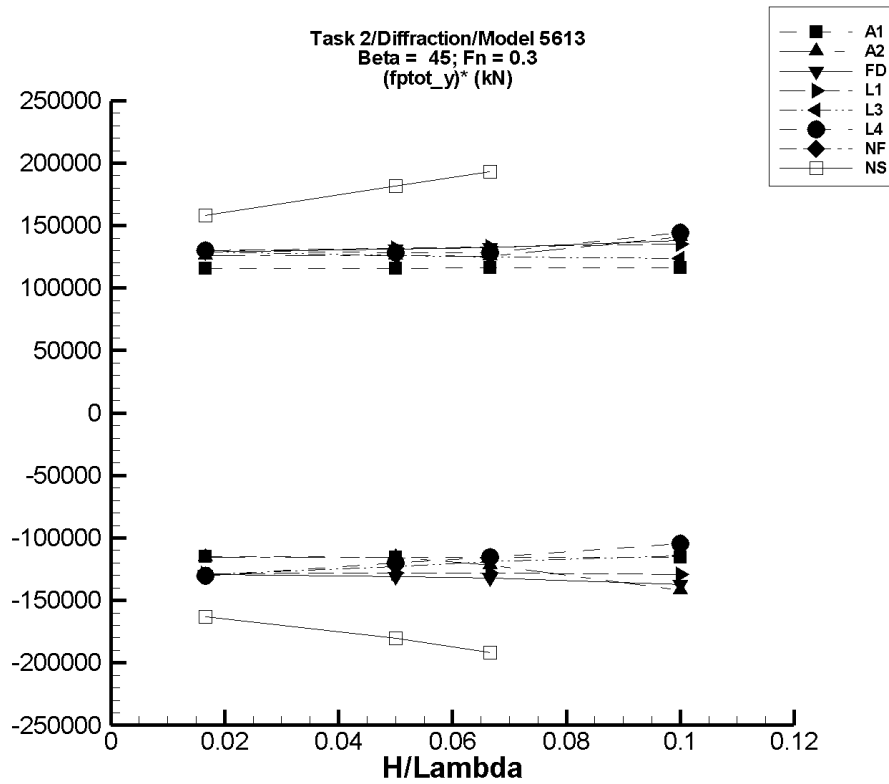


Figure Q-25. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–193. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.890 | -1.92E+03 | 1.93E+03 | -1.92E+03 | 1.93E+03 | -1.15E+05 | 1.16E+05 |
| 1/20 | 2.68 | -5.78E+03 | 5.80E+03 | -5.76E+03 | 5.80E+03 | -1.15E+05 | 1.16E+05 |
| 1/15 | 3.57 | -7.71E+03 | 7.74E+03 | -7.69E+03 | 7.74E+03 | -1.15E+05 | 1.16E+05 |
| 1/10 | 5.36 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.16E+04 | -1.15E+05 | 1.16E+05 |

Table Q–194. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.44 | -1.94E+03 | 2.10E+03 | -1.93E+03 | 2.09E+03 | -1.16E+05 | 1.26E+05 |
| 1/20 | 39.0 | -5.74E+03 | 1.05E+04 | -5.73E+03 | 6.35E+03 | -1.15E+05 | 1.26E+05 |
| 1/15 | 43.4 | -8.09E+03 | 9.58E+03 | -8.08E+03 | 8.41E+03 | -1.22E+05 | 1.25E+05 |
| 1/10 | 379. | -1.34E+04 | 3.10E+04 | -1.38E+04 | 1.45E+04 | -1.42E+05 | 1.41E+05 |

Table Q–195. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.142 | -2.16E+03 | 2.14E+03 | -2.16E+03 | 2.15E+03 | -1.29E+05 | 1.29E+05 |
| 1/20 | -0.545 | -6.56E+03 | 6.58E+03 | -6.55E+03 | 6.57E+03 | -1.31E+05 | 1.31E+05 |
| 1/15 | -0.797 | -8.81E+03 | 8.86E+03 | -8.79E+03 | 8.84E+03 | -1.32E+05 | 1.33E+05 |
| 1/10 | 2.61 | -1.37E+04 | 1.39E+04 | -1.37E+04 | 1.38E+04 | -1.37E+05 | 1.38E+05 |

Table Q–196. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -195. | -2.34E+03 | 1.97E+03 | -2.34E+03 | 1.97E+03 | -1.29E+05 | 1.30E+05 |
| 1/20 | -1.76E+03 | -8.18E+03 | 4.82E+03 | -8.18E+03 | 4.83E+03 | -1.28E+05 | 1.32E+05 |
| 1/15 | -3.13E+03 | -1.17E+04 | 5.72E+03 | -1.17E+04 | 5.71E+03 | -1.28E+05 | 1.33E+05 |
| 1/10 | -7.04E+03 | -2.00E+04 | 6.49E+03 | -1.99E+04 | 6.47E+03 | -1.29E+05 | 1.35E+05 |

Table Q–197. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -195. | -2.35E+03 | 1.95E+03 | -2.35E+03 | 1.95E+03 | -1.29E+05 | 1.29E+05 |
| 1/20 | -1.76E+03 | -7.92E+03 | 4.56E+03 | -7.91E+03 | 4.55E+03 | -1.23E+05 | 1.26E+05 |
| 1/15 | -3.13E+03 | -1.11E+04 | 5.19E+03 | -1.11E+04 | 5.18E+03 | -1.19E+05 | 1.25E+05 |
| 1/10 | -7.04E+03 | -1.85E+04 | 5.31E+03 | -1.85E+04 | 5.30E+03 | -1.14E+05 | 1.23E+05 |

Table Q–198. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 25.8 | -2.23E+03 | 2.21E+03 | -2.15E+03 | 2.19E+03 | -1.30E+05 | 1.30E+05 |
| 1/20 | 556. | -5.94E+03 | 7.06E+03 | -5.46E+03 | 6.97E+03 | -1.20E+05 | 1.28E+05 |
| 1/15 | 1.29E+03 | -7.75E+03 | 1.00E+04 | -6.42E+03 | 9.85E+03 | -1.16E+05 | 1.28E+05 |
| 1/10 | 3.02E+03 | -9.96E+03 | 2.93E+04 | -7.46E+03 | 1.75E+04 | -1.05E+05 | 1.44E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–199. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–200. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 78.4 | -2.66E+03 | 2.75E+03 | -2.64E+03 | 2.71E+03 | -1.63E+05 | 1.58E+05 |
| 1/20 | 699. | -8.43E+03 | 1.02E+04 | -8.31E+03 | 9.77E+03 | -1.80E+05 | 1.81E+05 |
| 1/15 | 1.17E+03 | -1.18E+04 | 1.48E+04 | -1.16E+04 | 1.40E+04 | -1.92E+05 | 1.93E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

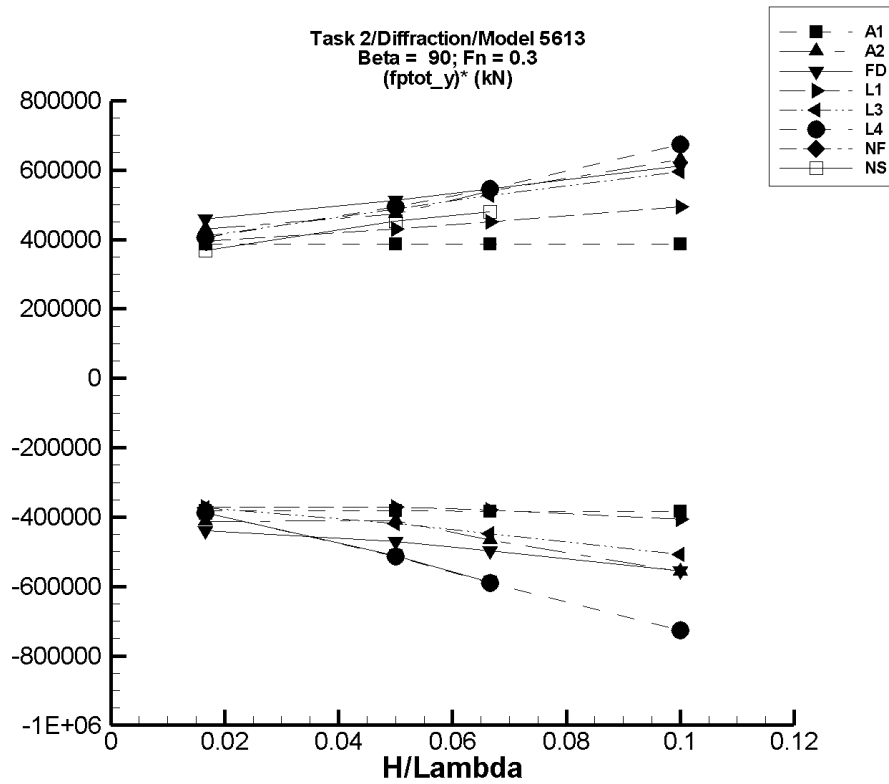


Figure Q-26. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–201. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.80 | -6.45E+03 | 6.50E+03 | -6.36E+03 | 6.43E+03 | -3.82E+05 | 3.86E+05 |
| 1/20 | -11.4 | -1.94E+04 | 1.95E+04 | -1.91E+04 | 1.93E+04 | -3.83E+05 | 3.87E+05 |
| 1/15 | -15.2 | -2.59E+04 | 2.61E+04 | -2.55E+04 | 2.58E+04 | -3.83E+05 | 3.87E+05 |
| 1/10 | -22.9 | -3.89E+04 | 3.91E+04 | -3.83E+04 | 3.87E+04 | -3.83E+05 | 3.87E+05 |

Table Q–202. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.35 | -7.08E+03 | 7.33E+03 | -6.90E+03 | 7.17E+03 | -4.13E+05 | 4.30E+05 |
| 1/20 | 75.1 | -2.11E+04 | 2.42E+04 | -2.04E+04 | 2.37E+04 | -4.10E+05 | 4.73E+05 |
| 1/15 | 17.3 | -3.18E+04 | 3.72E+04 | -3.10E+04 | 3.59E+04 | -4.65E+05 | 5.39E+05 |
| 1/10 | 79.4 | -5.71E+04 | 6.48E+04 | -5.57E+04 | 6.32E+04 | -5.58E+05 | 6.31E+05 |

Table Q–203. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.12 | -7.40E+03 | 7.73E+03 | -7.33E+03 | 7.64E+03 | -4.39E+05 | 4.59E+05 |
| 1/20 | -22.2 | -2.39E+04 | 2.61E+04 | -2.36E+04 | 2.56E+04 | -4.71E+05 | 5.13E+05 |
| 1/15 | -35.7 | -3.37E+04 | 3.70E+04 | -3.31E+04 | 3.63E+04 | -4.96E+05 | 5.45E+05 |
| 1/10 | -108. | -5.68E+04 | 6.24E+04 | -5.55E+04 | 6.11E+04 | -5.54E+05 | 6.12E+05 |

Table Q–204. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -214. | -6.43E+03 | 6.39E+03 | -6.41E+03 | 6.36E+03 | -3.72E+05 | 3.95E+05 |
| 1/20 | -1.92E+03 | -2.06E+04 | 1.97E+04 | -2.05E+04 | 1.96E+04 | -3.72E+05 | 4.31E+05 |
| 1/15 | -3.41E+03 | -2.88E+04 | 2.68E+04 | -2.87E+04 | 2.67E+04 | -3.80E+05 | 4.51E+05 |
| 1/10 | -7.66E+03 | -4.86E+04 | 4.20E+04 | -4.83E+04 | 4.17E+04 | -4.07E+05 | 4.94E+05 |

Table Q–205. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -214. | -6.46E+03 | 6.66E+03 | -6.43E+03 | 6.62E+03 | -3.73E+05 | 4.10E+05 |
| 1/20 | -1.91E+03 | -2.30E+04 | 2.27E+04 | -2.28E+04 | 2.25E+04 | -4.18E+05 | 4.88E+05 |
| 1/15 | -3.38E+03 | -3.35E+04 | 3.20E+04 | -3.33E+04 | 3.17E+04 | -4.49E+05 | 5.26E+05 |
| 1/10 | -7.58E+03 | -5.89E+04 | 5.26E+04 | -5.84E+04 | 5.20E+04 | -5.09E+05 | 5.96E+05 |

Table Q–206. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 202. | -6.46E+03 | 7.21E+03 | -6.26E+03 | 6.95E+03 | -3.88E+05 | 4.05E+05 |
| 1/20 | 1.92E+03 | -2.41E+04 | 2.69E+04 | -2.38E+04 | 2.66E+04 | -5.15E+05 | 4.94E+05 |
| 1/15 | 3.65E+03 | -3.63E+04 | 4.04E+04 | -3.56E+04 | 4.00E+04 | -5.89E+05 | 5.46E+05 |
| 1/10 | 8.23E+03 | -6.57E+04 | 7.71E+04 | -6.45E+04 | 7.56E+04 | -7.27E+05 | 6.74E+05 |

Table Q–207. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–208. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 79.3 | -6.49E+03 | 6.26E+03 | -6.37E+03 | 6.21E+03 | -3.87E+05 | 3.68E+05 |
| 1/20 | 464. | -2.68E+04 | 2.38E+04 | -2.51E+04 | 2.31E+04 | -5.12E+05 | 4.52E+05 |
| 1/15 | 265. | -3.98E+04 | 3.27E+04 | -3.89E+04 | 3.23E+04 | -5.88E+05 | 4.80E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

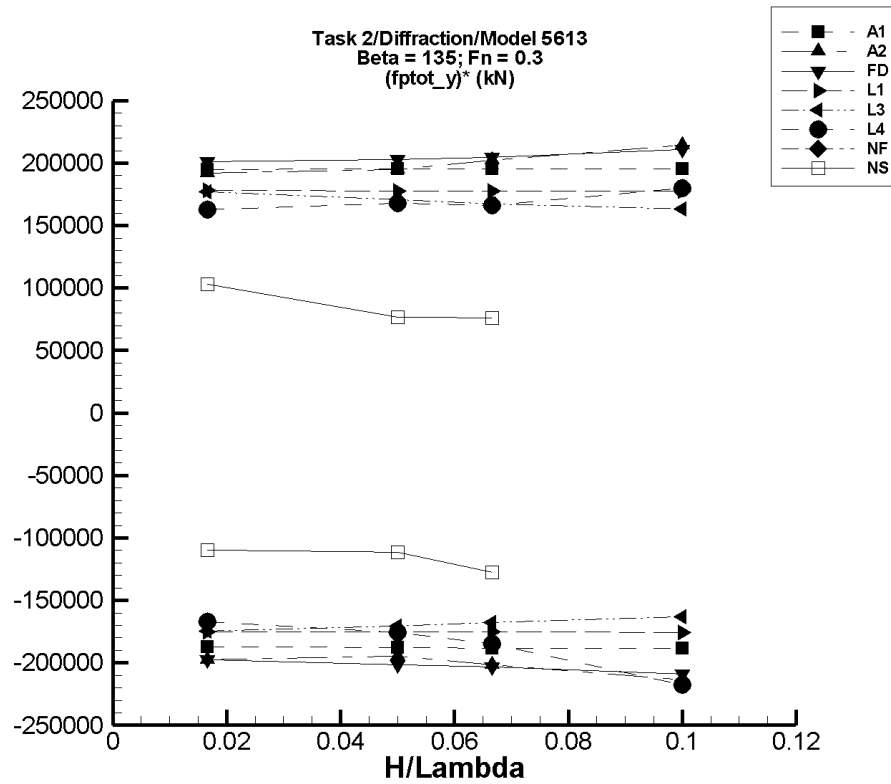


Figure Q-27. Minimum and maximum of filtered $(F_y^{\text{ptot}} - \langle F_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–209. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.336 | -3.20E+03 | 3.23E+03 | -3.13E+03 | 3.25E+03 | -1.87E+05 | 1.95E+05 |
| 1/20 | -1.01 | -9.63E+03 | 9.72E+03 | -9.40E+03 | 9.77E+03 | -1.88E+05 | 1.95E+05 |
| 1/15 | -1.35 | -1.29E+04 | 1.30E+04 | -1.25E+04 | 1.30E+04 | -1.88E+05 | 1.96E+05 |
| 1/10 | -2.02 | -1.93E+04 | 1.95E+04 | -1.88E+04 | 1.96E+04 | -1.88E+05 | 1.96E+05 |

Table Q–210. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.64 | -3.41E+03 | 3.19E+03 | -3.30E+03 | 3.19E+03 | -1.98E+05 | 1.92E+05 |
| 1/20 | 6.09 | -1.03E+04 | 9.74E+03 | -9.74E+03 | 9.75E+03 | -1.95E+05 | 1.95E+05 |
| 1/15 | -18.0 | -1.37E+04 | 1.35E+04 | -1.34E+04 | 1.35E+04 | -2.01E+05 | 2.02E+05 |
| 1/10 | -46.3 | -2.22E+04 | 2.14E+04 | -2.14E+04 | 2.14E+04 | -2.14E+05 | 2.14E+05 |

Table Q-211. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.207 | -3.37E+03 | 3.36E+03 | -3.29E+03 | 3.35E+03 | -1.97E+05 | 2.01E+05 |
| 1/20 | 4.94 | -1.03E+04 | 1.02E+04 | -1.01E+04 | 1.02E+04 | -2.01E+05 | 2.03E+05 |
| 1/15 | 10.5 | -1.39E+04 | 1.37E+04 | -1.35E+04 | 1.37E+04 | -2.03E+05 | 2.05E+05 |
| 1/10 | 21.5 | -2.14E+04 | 2.11E+04 | -2.09E+04 | 2.11E+04 | -2.09E+05 | 2.11E+05 |

Table Q-212. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -124. | -3.07E+03 | 2.82E+03 | -3.04E+03 | 2.84E+03 | -1.75E+05 | 1.78E+05 |
| 1/20 | -1.12E+03 | -9.96E+03 | 7.70E+03 | -9.88E+03 | 7.78E+03 | -1.75E+05 | 1.78E+05 |
| 1/15 | -1.99E+03 | -1.38E+04 | 9.77E+03 | -1.37E+04 | 9.87E+03 | -1.75E+05 | 1.78E+05 |
| 1/10 | -4.47E+03 | -2.22E+04 | 1.32E+04 | -2.20E+04 | 1.33E+04 | -1.75E+05 | 1.78E+05 |

Table Q–213. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -124. | -3.05E+03 | 2.80E+03 | -3.03E+03 | 2.82E+03 | -1.74E+05 | 1.77E+05 |
| 1/20 | -1.12E+03 | -9.72E+03 | 7.34E+03 | -9.64E+03 | 7.41E+03 | -1.70E+05 | 1.71E+05 |
| 1/15 | -1.99E+03 | -1.32E+04 | 9.09E+03 | -1.32E+04 | 9.18E+03 | -1.67E+05 | 1.68E+05 |
| 1/10 | -4.47E+03 | -2.09E+04 | 1.18E+04 | -2.08E+04 | 1.19E+04 | -1.63E+05 | 1.64E+05 |

Table Q–214. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 131. | -2.70E+03 | 2.98E+03 | -2.65E+03 | 2.84E+03 | -1.67E+05 | 1.62E+05 |
| 1/20 | 1.43E+03 | -7.52E+03 | 1.15E+04 | -7.36E+03 | 9.83E+03 | -1.76E+05 | 1.68E+05 |
| 1/15 | 2.85E+03 | -9.69E+03 | 1.45E+04 | -9.47E+03 | 1.39E+04 | -1.85E+05 | 1.66E+05 |
| 1/10 | 6.80E+03 | -1.96E+04 | 2.54E+04 | -1.50E+04 | 2.48E+04 | -2.17E+05 | 1.80E+05 |

Table Q–215. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–216. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 73.9 | -1.88E+03 | 1.81E+03 | -1.76E+03 | 1.80E+03 | -1.10E+05 | 1.03E+05 |
| 1/20 | 465. | -6.26E+03 | 4.37E+03 | -5.10E+03 | 4.30E+03 | -1.11E+05 | 7.67E+04 |
| 1/15 | 836. | -7.91E+03 | 7.67E+03 | -7.66E+03 | 5.90E+03 | -1.27E+05 | 7.60E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

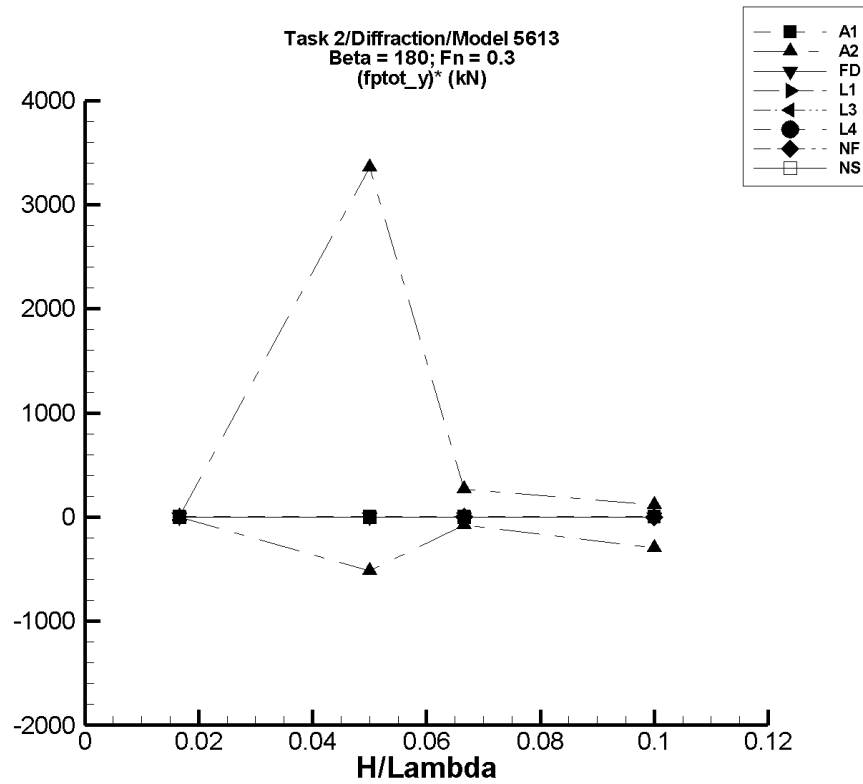


Figure Q-28. Minimum and maximum of filtered $(F_y^{ptot} - \langle F_y^{ptot} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–217. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.95E-04 | -5.97E-02 | 5.95E-02 | -5.76E-02 | 5.76E-02 | -3.47 | 3.45 |
| 1/20 | 5.85E-04 | -0.180 | 0.179 | -0.173 | 0.173 | -3.48 | 3.45 |
| 1/15 | 7.81E-04 | -0.240 | 0.239 | -0.231 | 0.231 | -3.48 | 3.46 |
| 1/10 | 1.17E-03 | -0.359 | 0.358 | -0.347 | 0.347 | -3.48 | 3.46 |

Table Q–218. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|----------------------|------------------------------------------------|----------------------|----------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.03E-04 | -6.12E-02 | 6.08E-02 | -5.90E-02 | 5.89E-02 | -3.55 | 3.52 |
| 1/20 | 10.5 | -0.184 | 1.34E+03 | -15.5 | 178. | -518. | 3.36E+03 |
| 1/15 | 2.99 | -0.247 | 157. | -2.00 | 20.9 | -74.9 | 269. |
| 1/10 | -3.61 | -251. | 45.9 | -33.1 | 8.34 | -295. | 120. |

Table Q–219. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.65E-05 | -1.52E-03 | 1.71E-03 | -9.05E-04 | 1.43E-03 | -5.53E-02 | 8.49E-02 |
| 1/20 | -4.09E-05 | -4.40E-03 | 4.90E-03 | -2.66E-03 | 4.13E-03 | -5.25E-02 | 8.34E-02 |
| 1/15 | -3.46E-05 | -5.96E-03 | 6.70E-03 | -3.47E-03 | 5.61E-03 | -5.16E-02 | 8.46E-02 |
| 1/10 | 1.76E-04 | -8.91E-03 | 1.11E-02 | -5.77E-03 | 8.33E-03 | -5.94E-02 | 8.15E-02 |

Table Q–220. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–221. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–222. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–223. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case
(NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$
, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | -3.04E-12 | -2.42E-11 | 1.41E-11 | -1.51E-11 | 4.27E-12 | -2.42E-10 | 1.46E-10 |
| 1/15 | -3.26E-12 | -2.15E-11 | 1.50E-11 | -1.79E-11 | 8.05E-12 | -2.19E-10 | 1.70E-10 |
| 1/10 | 9.98E-12 | -5.13E-11 | 6.81E-11 | -5.13E-11 | 4.91E-11 | -6.12E-10 | 3.92E-10 |

Table Q–224. Minimum and Maximum of Variables F_y^{ptot} and $(F_y^{\text{ptot}})^*$ for the Case
(NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{ptot}} \rangle$ | Unfiltered F_y^{ptot} | | Filtered F_y^{ptot} | | Filtered $(F_y^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.28E-05 | -1.63E-02 | 1.54E-02 | -6.98E-04 | 1.69E-03 | -4.33E-02 | 9.99E-02 |
| 1/20 | -1.98E-04 | -1.43E-02 | 1.36E-02 | -4.77E-03 | 2.20E-03 | -9.15E-02 | 4.80E-02 |
| 1/15 | 4.07E-04 | -3.71E-02 | 3.76E-02 | -1.55E-03 | 7.86E-03 | -2.94E-02 | 0.112 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

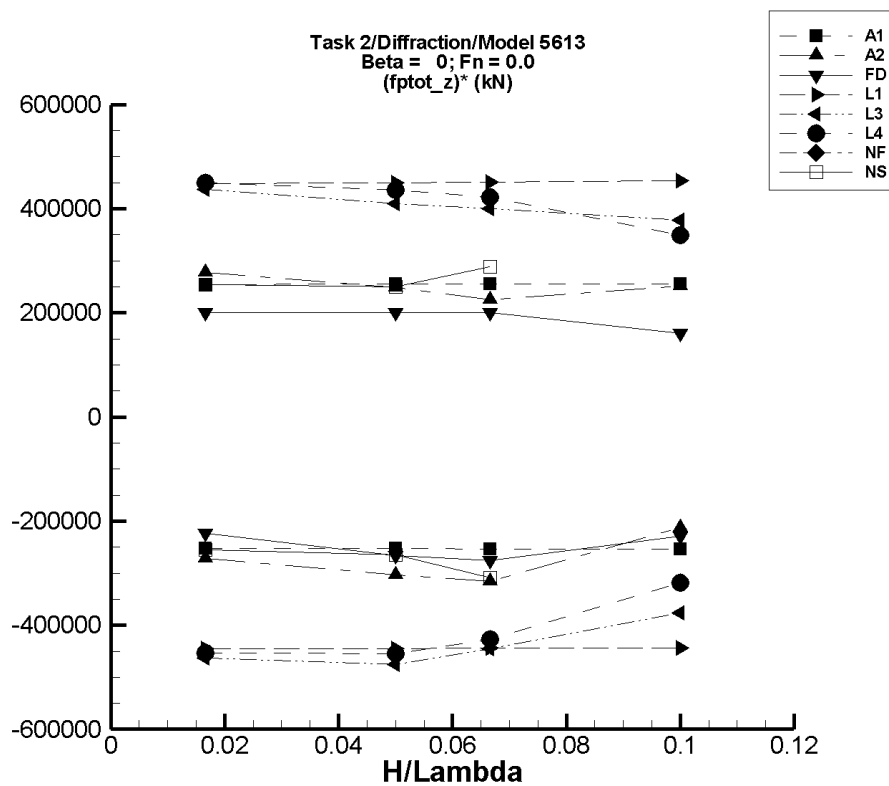


Figure Q-29. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-225. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.16E+04 | 9.03E+04 | 8.17E+04 | 9.01E+04 | -2.52E+05 | 2.54E+05 |
| 1/20 | 8.59E+04 | 7.29E+04 | 9.90E+04 | 7.32E+04 | 9.86E+04 | -2.53E+05 | 2.55E+05 |
| 1/15 | 8.58E+04 | 6.85E+04 | 1.03E+05 | 6.89E+04 | 1.03E+05 | -2.53E+05 | 2.55E+05 |
| 1/10 | 8.58E+04 | 5.98E+04 | 1.12E+05 | 6.05E+04 | 1.11E+05 | -2.53E+05 | 2.55E+05 |

Table Q-226. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.10E+04 | 9.03E+04 | 8.11E+04 | 9.02E+04 | -2.71E+05 | 2.77E+05 |
| 1/20 | 8.76E+04 | 7.22E+04 | 1.00E+05 | 7.25E+04 | 1.00E+05 | -3.03E+05 | 2.49E+05 |
| 1/15 | 8.96E+04 | 6.78E+04 | 1.05E+05 | 6.85E+04 | 1.05E+05 | -3.16E+05 | 2.26E+05 |
| 1/10 | 9.17E+04 | 5.93E+04 | 1.17E+05 | 7.04E+04 | 1.17E+05 | -2.13E+05 | 2.51E+05 |

Table Q-227. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.18E+04 | 8.89E+04 | 8.19E+04 | 8.89E+04 | -2.23E+05 | 2.00E+05 |
| 1/20 | 8.69E+04 | 7.35E+04 | 9.71E+04 | 7.36E+04 | 9.70E+04 | -2.66E+05 | 2.01E+05 |
| 1/15 | 8.80E+04 | 6.93E+04 | 1.01E+05 | 6.96E+04 | 1.01E+05 | -2.76E+05 | 2.00E+05 |
| 1/10 | 9.58E+04 | 7.26E+04 | 1.12E+05 | 7.29E+04 | 1.12E+05 | -2.29E+05 | 1.61E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–228. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.53E+04 | 7.78E+04 | 9.28E+04 | 7.78E+04 | 9.27E+04 | -4.46E+05 | 4.48E+05 |
| 1/20 | 8.30E+04 | 6.07E+04 | 1.06E+05 | 6.08E+04 | 1.05E+05 | -4.45E+05 | 4.50E+05 |
| 1/15 | 8.10E+04 | 5.13E+04 | 1.11E+05 | 5.14E+04 | 1.11E+05 | -4.44E+05 | 4.51E+05 |
| 1/10 | 7.53E+04 | 3.07E+04 | 1.21E+05 | 3.09E+04 | 1.21E+05 | -4.44E+05 | 4.54E+05 |

Table Q–229. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.49E+04 | 7.72E+04 | 9.22E+04 | 7.72E+04 | 9.22E+04 | -4.63E+05 | 4.37E+05 |
| 1/20 | 8.09E+04 | 5.70E+04 | 1.02E+05 | 5.72E+04 | 1.01E+05 | -4.75E+05 | 4.10E+05 |
| 1/15 | 7.83E+04 | 4.85E+04 | 1.05E+05 | 4.87E+04 | 1.05E+05 | -4.45E+05 | 4.00E+05 |
| 1/10 | 7.57E+04 | 3.79E+04 | 1.14E+05 | 3.80E+04 | 1.14E+05 | -3.77E+05 | 3.79E+05 |

Table Q–230. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.48E+04 | 7.72E+04 | 9.26E+04 | 7.73E+04 | 9.23E+04 | -4.53E+05 | 4.50E+05 |
| 1/20 | 8.02E+04 | 5.64E+04 | 1.03E+05 | 5.75E+04 | 1.02E+05 | -4.55E+05 | 4.35E+05 |
| 1/15 | 7.67E+04 | 4.76E+04 | 1.06E+05 | 4.83E+04 | 1.05E+05 | -4.27E+05 | 4.22E+05 |
| 1/10 | 7.46E+04 | 3.90E+04 | 1.12E+05 | 4.27E+04 | 1.10E+05 | -3.19E+05 | 3.50E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–231. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–232. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.40E+04 | 7.96E+04 | 8.82E+04 | 7.97E+04 | 8.82E+04 | -2.55E+05 | 2.54E+05 |
| 1/20 | 7.84E+04 | 6.46E+04 | 9.12E+04 | 6.52E+04 | 9.09E+04 | -2.64E+05 | 2.50E+05 |
| 1/15 | 7.21E+04 | 5.01E+04 | 9.18E+04 | 5.15E+04 | 9.13E+04 | -3.09E+05 | 2.89E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

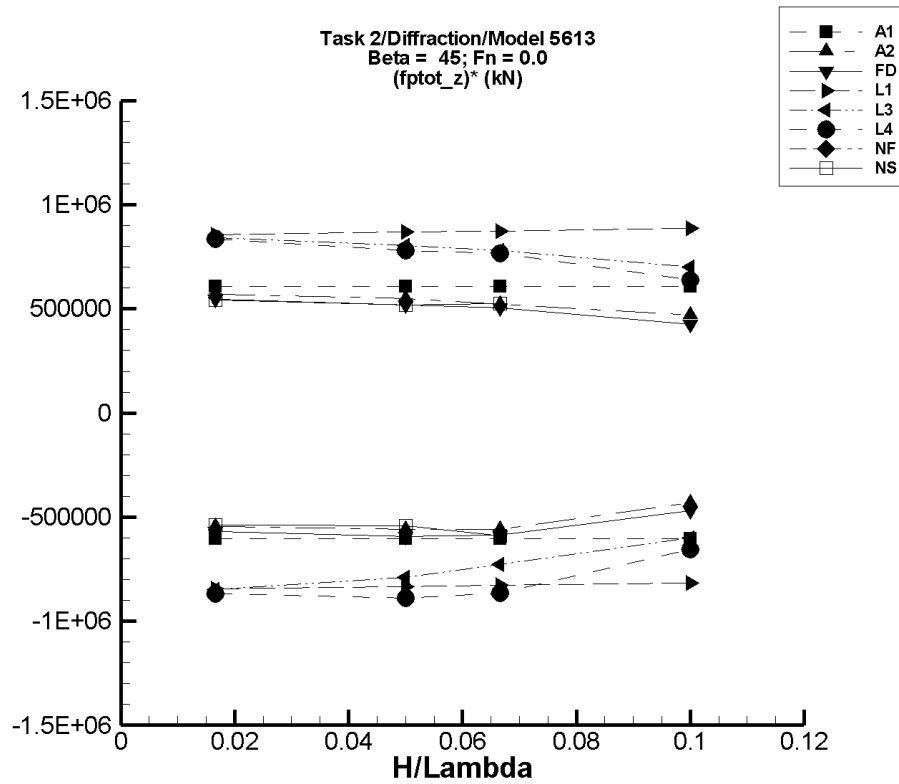


Figure Q–30. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-233. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 7.57E+04 | 9.61E+04 | 7.58E+04 | 9.60E+04 | -6.03E+05 | 6.07E+05 |
| 1/20 | 8.58E+04 | 5.53E+04 | 1.17E+05 | 5.56E+04 | 1.16E+05 | -6.04E+05 | 6.09E+05 |
| 1/15 | 8.58E+04 | 4.50E+04 | 1.27E+05 | 4.55E+04 | 1.26E+05 | -6.05E+05 | 6.09E+05 |
| 1/10 | 8.57E+04 | 2.46E+04 | 1.47E+05 | 2.52E+04 | 1.47E+05 | -6.05E+05 | 6.09E+05 |

Table Q-234. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.64E+04 | 9.52E+04 | 7.65E+04 | 9.51E+04 | -5.45E+05 | 5.71E+05 |
| 1/20 | 8.76E+04 | 5.90E+04 | 1.15E+05 | 5.96E+04 | 1.15E+05 | -5.60E+05 | 5.48E+05 |
| 1/15 | 8.95E+04 | 5.09E+04 | 1.25E+05 | 5.21E+04 | 1.24E+05 | -5.60E+05 | 5.23E+05 |
| 1/10 | 9.31E+04 | 2.14E+04 | 1.41E+05 | 5.00E+04 | 1.40E+05 | -4.31E+05 | 4.69E+05 |

Table Q-235. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.60E+04 | 9.47E+04 | 7.61E+04 | 9.47E+04 | -5.70E+05 | 5.45E+05 |
| 1/20 | 8.69E+04 | 5.67E+04 | 1.13E+05 | 5.73E+04 | 1.13E+05 | -5.92E+05 | 5.20E+05 |
| 1/15 | 8.79E+04 | 4.80E+04 | 1.22E+05 | 4.89E+04 | 1.22E+05 | -5.86E+05 | 5.04E+05 |
| 1/10 | 9.57E+04 | 4.79E+04 | 1.39E+05 | 4.87E+04 | 1.38E+05 | -4.70E+05 | 4.25E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-236. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 7.09E+04 | 9.94E+04 | 7.10E+04 | 9.93E+04 | -8.45E+05 | 8.56E+05 |
| 1/20 | 8.09E+04 | 3.91E+04 | 1.25E+05 | 3.93E+04 | 1.24E+05 | -8.34E+05 | 8.68E+05 |
| 1/15 | 7.74E+04 | 2.20E+04 | 1.36E+05 | 2.22E+04 | 1.36E+05 | -8.28E+05 | 8.74E+05 |
| 1/10 | 6.71E+04 | -1.48E+04 | 1.56E+05 | -1.45E+04 | 1.56E+05 | -8.16E+05 | 8.85E+05 |

Table Q-237. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 7.05E+04 | 9.88E+04 | 7.05E+04 | 9.87E+04 | -8.49E+05 | 8.43E+05 |
| 1/20 | 7.88E+04 | 3.91E+04 | 1.19E+05 | 3.93E+04 | 1.19E+05 | -7.90E+05 | 8.04E+05 |
| 1/15 | 7.46E+04 | 2.58E+04 | 1.27E+05 | 2.60E+04 | 1.27E+05 | -7.29E+05 | 7.79E+05 |
| 1/10 | 6.74E+04 | 7.19E+03 | 1.38E+05 | 7.29E+03 | 1.37E+05 | -6.01E+05 | 7.00E+05 |

Table Q-238. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.46E+04 | 7.00E+04 | 9.87E+04 | 7.01E+04 | 9.85E+04 | -8.69E+05 | 8.34E+05 |
| 1/20 | 7.84E+04 | 3.28E+04 | 1.18E+05 | 3.40E+04 | 1.17E+05 | -8.88E+05 | 7.80E+05 |
| 1/15 | 7.41E+04 | 1.43E+04 | 1.26E+05 | 1.63E+04 | 1.25E+05 | -8.66E+05 | 7.65E+05 |
| 1/10 | 7.07E+04 | 1.26E+03 | 1.38E+05 | 5.25E+03 | 1.35E+05 | -6.55E+05 | 6.40E+05 |

Table Q–239. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–240. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.39E+04 | 7.48E+04 | 9.30E+04 | 7.49E+04 | 9.29E+04 | -5.39E+05 | 5.41E+05 |
| 1/20 | 7.79E+04 | 4.89E+04 | 1.05E+05 | 5.08E+04 | 1.04E+05 | -5.41E+05 | 5.19E+05 |
| 1/15 | 7.14E+04 | 2.90E+04 | 1.07E+05 | 3.21E+04 | 1.07E+05 | -5.91E+05 | 5.27E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

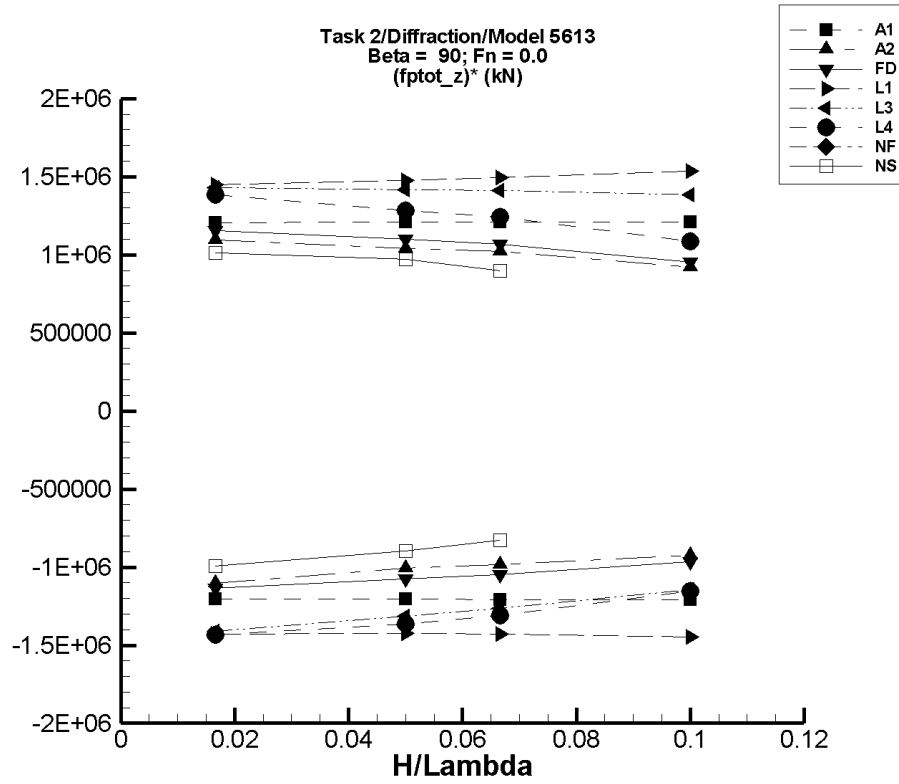


Figure Q–31. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–241. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 6.56E+04 | 1.06E+05 | 6.58E+04 | 1.06E+05 | -1.20E+06 | 1.20E+06 |
| 1/20 | 8.58E+04 | 2.49E+04 | 1.47E+05 | 2.56E+04 | 1.46E+05 | -1.21E+06 | 1.21E+06 |
| 1/15 | 8.58E+04 | 4.52E+03 | 1.67E+05 | 5.34E+03 | 1.66E+05 | -1.21E+06 | 1.21E+06 |
| 1/10 | 8.57E+04 | -3.62E+04 | 2.08E+05 | -3.49E+04 | 2.07E+05 | -1.21E+06 | 1.21E+06 |

Table Q–242. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 6.70E+04 | 1.04E+05 | 6.72E+04 | 1.04E+05 | -1.10E+06 | 1.09E+06 |
| 1/20 | 8.77E+04 | 3.65E+04 | 1.40E+05 | 3.72E+04 | 1.40E+05 | -1.01E+06 | 1.04E+06 |
| 1/15 | 8.96E+04 | 2.35E+04 | 1.59E+05 | 2.41E+04 | 1.58E+05 | -9.81E+05 | 1.02E+06 |
| 1/10 | 9.39E+04 | -824. | 1.89E+05 | 1.75E+03 | 1.86E+05 | -9.22E+05 | 9.19E+05 |

Table Q–243. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 6.65E+04 | 1.05E+05 | 6.67E+04 | 1.05E+05 | -1.14E+06 | 1.15E+06 |
| 1/20 | 8.69E+04 | 3.27E+04 | 1.42E+05 | 3.32E+04 | 1.42E+05 | -1.07E+06 | 1.10E+06 |
| 1/15 | 8.81E+04 | 1.75E+04 | 1.60E+05 | 1.83E+04 | 1.59E+05 | -1.05E+06 | 1.07E+06 |
| 1/10 | 9.64E+04 | -3.19E+03 | 1.93E+05 | -286. | 1.92E+05 | -9.67E+05 | 9.53E+05 |

Table Q–244. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 6.08E+04 | 1.09E+05 | 6.09E+04 | 1.09E+05 | -1.43E+06 | 1.45E+06 |
| 1/20 | 7.79E+04 | 6.35E+03 | 1.52E+05 | 6.61E+03 | 1.52E+05 | -1.43E+06 | 1.47E+06 |
| 1/15 | 7.19E+04 | -2.37E+04 | 1.72E+05 | -2.34E+04 | 1.71E+05 | -1.43E+06 | 1.49E+06 |
| 1/10 | 5.49E+04 | -9.03E+04 | 2.09E+05 | -8.97E+04 | 2.08E+05 | -1.45E+06 | 1.53E+06 |

Table Q–245. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.43E+04 | 6.08E+04 | 1.08E+05 | 6.08E+04 | 1.08E+05 | -1.41E+06 | 1.43E+06 |
| 1/20 | 7.58E+04 | 9.78E+03 | 1.47E+05 | 1.00E+04 | 1.47E+05 | -1.32E+06 | 1.41E+06 |
| 1/15 | 6.92E+04 | -1.53E+04 | 1.64E+05 | -1.50E+04 | 1.63E+05 | -1.26E+06 | 1.41E+06 |
| 1/10 | 5.54E+04 | -5.99E+04 | 1.95E+05 | -5.90E+04 | 1.94E+05 | -1.14E+06 | 1.38E+06 |

Table Q–246. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.43E+04 | 6.02E+04 | 1.07E+05 | 6.04E+04 | 1.07E+05 | -1.44E+06 | 1.39E+06 |
| 1/20 | 7.62E+04 | 7.00E+03 | 1.41E+05 | 7.99E+03 | 1.40E+05 | -1.36E+06 | 1.28E+06 |
| 1/15 | 7.15E+04 | -1.71E+04 | 1.55E+05 | -1.59E+04 | 1.54E+05 | -1.31E+06 | 1.24E+06 |
| 1/10 | 7.06E+04 | -4.65E+04 | 1.82E+05 | -4.48E+04 | 1.79E+05 | -1.15E+06 | 1.09E+06 |

Table Q–247. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–248. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.38E+04 | 6.70E+04 | 1.01E+05 | 6.72E+04 | 1.01E+05 | -9.92E+05 | 1.01E+06 |
| 1/20 | 7.73E+04 | 3.19E+04 | 1.27E+05 | 3.24E+04 | 1.26E+05 | -8.98E+05 | 9.69E+05 |
| 1/15 | 7.08E+04 | 1.51E+04 | 1.31E+05 | 1.56E+04 | 1.31E+05 | -8.27E+05 | 8.99E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

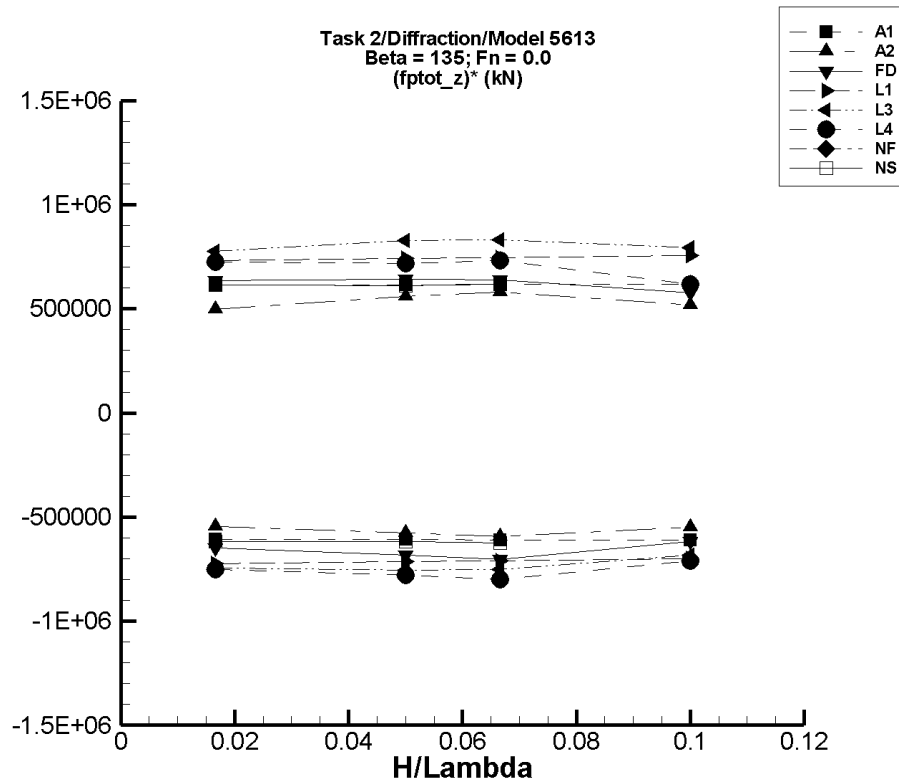


Figure Q–32. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-249. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 7.57E+04 | 9.61E+04 | 7.58E+04 | 9.61E+04 | -6.06E+05 | 6.15E+05 |
| 1/20 | 8.59E+04 | 5.51E+04 | 1.17E+05 | 5.55E+04 | 1.17E+05 | -6.08E+05 | 6.17E+05 |
| 1/15 | 8.58E+04 | 4.48E+04 | 1.27E+05 | 4.52E+04 | 1.27E+05 | -6.09E+05 | 6.17E+05 |
| 1/10 | 8.58E+04 | 2.43E+04 | 1.47E+05 | 2.49E+04 | 1.48E+05 | -6.09E+05 | 6.17E+05 |

Table Q-250. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.64E+04 | 9.40E+04 | 7.65E+04 | 9.39E+04 | -5.46E+05 | 5.00E+05 |
| 1/20 | 8.77E+04 | 5.87E+04 | 1.16E+05 | 5.89E+04 | 1.16E+05 | -5.76E+05 | 5.62E+05 |
| 1/15 | 8.95E+04 | 4.96E+04 | 1.28E+05 | 5.00E+04 | 1.28E+05 | -5.93E+05 | 5.79E+05 |
| 1/10 | 9.34E+04 | 3.57E+04 | 1.46E+05 | 3.85E+04 | 1.45E+05 | -5.49E+05 | 5.17E+05 |

Table Q-251. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.47E+04 | 9.63E+04 | 7.48E+04 | 9.62E+04 | -6.47E+05 | 6.36E+05 |
| 1/20 | 8.70E+04 | 5.25E+04 | 1.19E+05 | 5.28E+04 | 1.19E+05 | -6.83E+05 | 6.43E+05 |
| 1/15 | 8.80E+04 | 4.07E+04 | 1.31E+05 | 4.11E+04 | 1.31E+05 | -7.03E+05 | 6.40E+05 |
| 1/10 | 9.57E+04 | 3.34E+04 | 1.54E+05 | 3.41E+04 | 1.53E+05 | -6.16E+05 | 5.77E+05 |

Table Q–252. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 7.29E+04 | 9.72E+04 | 7.29E+04 | 9.72E+04 | -7.23E+05 | 7.32E+05 |
| 1/20 | 8.05E+04 | 4.47E+04 | 1.18E+05 | 4.48E+04 | 1.18E+05 | -7.14E+05 | 7.41E+05 |
| 1/15 | 7.65E+04 | 2.90E+04 | 1.26E+05 | 2.92E+04 | 1.26E+05 | -7.10E+05 | 7.46E+05 |
| 1/10 | 6.52E+04 | -5.14E+03 | 1.41E+05 | -4.91E+03 | 1.41E+05 | -7.02E+05 | 7.55E+05 |

Table Q–253. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.46E+04 | 7.22E+04 | 9.76E+04 | 7.22E+04 | 9.76E+04 | -7.44E+05 | 7.77E+05 |
| 1/20 | 7.84E+04 | 4.05E+04 | 1.20E+05 | 4.06E+04 | 1.20E+05 | -7.55E+05 | 8.27E+05 |
| 1/15 | 7.38E+04 | 2.36E+04 | 1.29E+05 | 2.37E+04 | 1.29E+05 | -7.50E+05 | 8.32E+05 |
| 1/10 | 6.56E+04 | -2.82E+03 | 1.45E+05 | -2.66E+03 | 1.45E+05 | -6.82E+05 | 7.94E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–254. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.45E+04 | 7.18E+04 | 9.67E+04 | 7.19E+04 | 9.66E+04 | -7.52E+05 | 7.26E+05 |
| 1/20 | 7.68E+04 | 3.75E+04 | 1.13E+05 | 3.79E+04 | 1.13E+05 | -7.79E+05 | 7.18E+05 |
| 1/15 | 7.14E+04 | 1.76E+04 | 1.21E+05 | 1.82E+04 | 1.20E+05 | -7.98E+05 | 7.32E+05 |
| 1/10 | 6.83E+04 | -4.88E+03 | 1.33E+05 | -2.85E+03 | 1.30E+05 | -7.12E+05 | 6.18E+05 |

Table Q–255. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–256. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.39E+04 | 7.35E+04 | 9.43E+04 | 7.36E+04 | 9.42E+04 | -6.18E+05 | 6.16E+05 |
| 1/20 | 7.79E+04 | 4.61E+04 | 1.11E+05 | 4.71E+04 | 1.09E+05 | -6.17E+05 | 6.12E+05 |
| 1/15 | 7.15E+04 | 2.95E+04 | 1.16E+05 | 3.00E+04 | 1.13E+05 | -6.23E+05 | 6.20E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

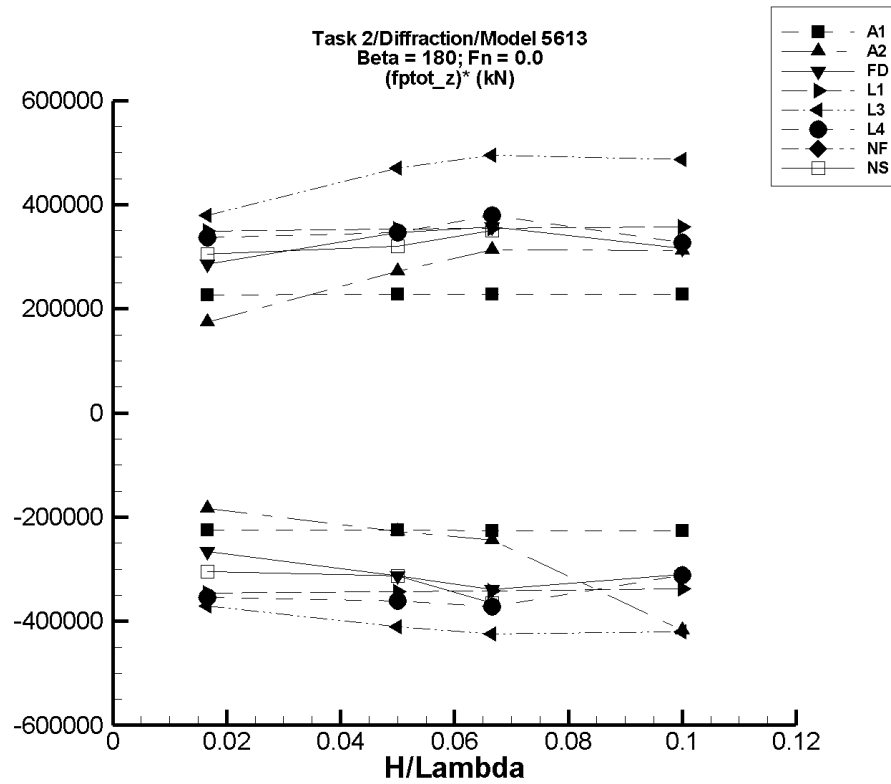


Figure Q-33. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–257. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.21E+04 | 8.97E+04 | 8.21E+04 | 8.97E+04 | -2.25E+05 | 2.27E+05 |
| 1/20 | 8.59E+04 | 7.45E+04 | 9.73E+04 | 7.46E+04 | 9.72E+04 | -2.25E+05 | 2.27E+05 |
| 1/15 | 8.59E+04 | 7.07E+04 | 1.01E+05 | 7.08E+04 | 1.01E+05 | -2.26E+05 | 2.28E+05 |
| 1/10 | 8.58E+04 | 6.30E+04 | 1.09E+05 | 6.33E+04 | 1.09E+05 | -2.26E+05 | 2.28E+05 |

Table Q–258. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.25E+04 | 8.85E+04 | 8.25E+04 | 8.85E+04 | -1.84E+05 | 1.75E+05 |
| 1/20 | 8.77E+04 | 7.61E+04 | 1.01E+05 | 7.63E+04 | 1.01E+05 | -2.28E+05 | 2.73E+05 |
| 1/15 | 8.96E+04 | 7.31E+04 | 1.11E+05 | 7.33E+04 | 1.10E+05 | -2.44E+05 | 3.14E+05 |
| 1/10 | 9.16E+04 | 4.25E+04 | 1.23E+05 | 4.98E+04 | 1.23E+05 | -4.18E+05 | 3.11E+05 |

Table Q–259. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.11E+04 | 9.04E+04 | 8.11E+04 | 9.03E+04 | -2.66E+05 | 2.86E+05 |
| 1/20 | 8.69E+04 | 7.13E+04 | 1.04E+05 | 7.13E+04 | 1.04E+05 | -3.13E+05 | 3.47E+05 |
| 1/15 | 8.80E+04 | 6.54E+04 | 1.12E+05 | 6.54E+04 | 1.12E+05 | -3.40E+05 | 3.58E+05 |
| 1/10 | 9.59E+04 | 6.46E+04 | 1.28E+05 | 6.48E+04 | 1.27E+05 | -3.11E+05 | 3.16E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-260. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.52E+04 | 7.95E+04 | 9.11E+04 | 7.95E+04 | 9.11E+04 | -3.46E+05 | 3.50E+05 |
| 1/20 | 8.27E+04 | 6.55E+04 | 1.00E+05 | 6.56E+04 | 1.00E+05 | -3.43E+05 | 3.53E+05 |
| 1/15 | 8.05E+04 | 5.77E+04 | 1.04E+05 | 5.78E+04 | 1.04E+05 | -3.41E+05 | 3.54E+05 |
| 1/10 | 7.43E+04 | 4.04E+04 | 1.10E+05 | 4.05E+04 | 1.10E+05 | -3.38E+05 | 3.58E+05 |

Table Q-261. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.49E+04 | 7.87E+04 | 9.12E+04 | 7.87E+04 | 9.12E+04 | -3.71E+05 | 3.80E+05 |
| 1/20 | 8.07E+04 | 6.01E+04 | 1.04E+05 | 6.02E+04 | 1.04E+05 | -4.11E+05 | 4.70E+05 |
| 1/15 | 7.79E+04 | 4.95E+04 | 1.11E+05 | 4.96E+04 | 1.11E+05 | -4.24E+05 | 4.95E+05 |
| 1/10 | 7.47E+04 | 3.25E+04 | 1.24E+05 | 3.26E+04 | 1.23E+05 | -4.21E+05 | 4.87E+05 |

Table Q-262. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.47E+04 | 7.88E+04 | 9.04E+04 | 7.88E+04 | 9.03E+04 | -3.54E+05 | 3.37E+05 |
| 1/20 | 7.89E+04 | 6.06E+04 | 9.70E+04 | 6.08E+04 | 9.62E+04 | -3.61E+05 | 3.46E+05 |
| 1/15 | 7.46E+04 | 4.94E+04 | 1.01E+05 | 4.98E+04 | 9.99E+04 | -3.73E+05 | 3.80E+05 |
| 1/10 | 7.27E+04 | 2.91E+04 | 1.10E+05 | 4.15E+04 | 1.05E+05 | -3.12E+05 | 3.27E+05 |

Table Q–263. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–264. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.40E+04 | 7.89E+04 | 8.91E+04 | 7.89E+04 | 8.91E+04 | -3.05E+05 | 3.05E+05 |
| 1/20 | 7.84E+04 | 6.24E+04 | 9.60E+04 | 6.28E+04 | 9.45E+04 | -3.13E+05 | 3.21E+05 |
| 1/15 | 7.21E+04 | 4.71E+04 | 1.01E+05 | 4.77E+04 | 9.55E+04 | -3.65E+05 | 3.51E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

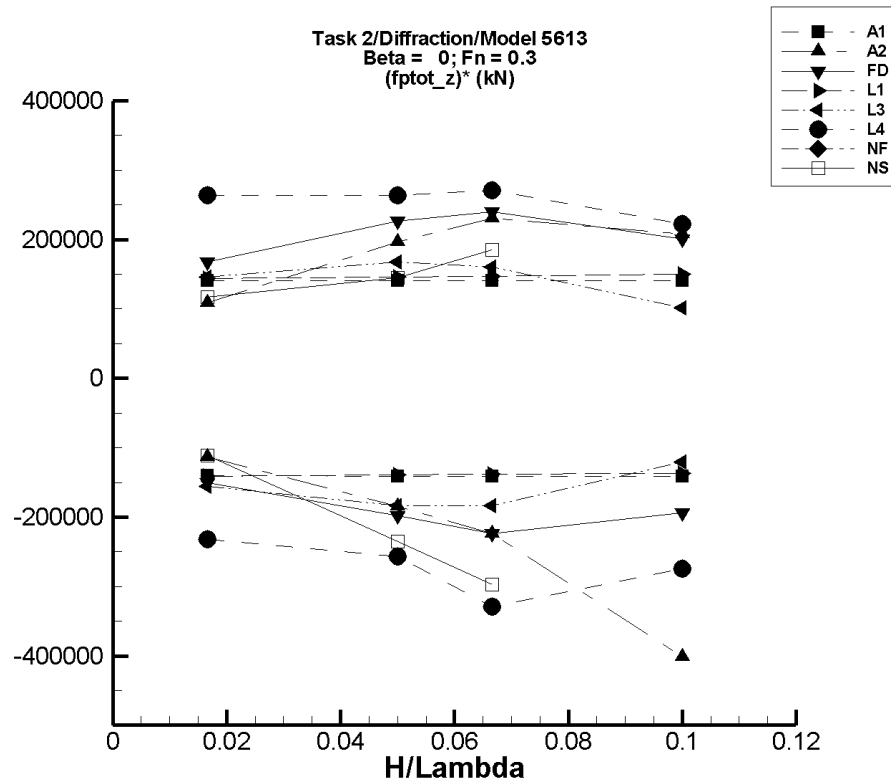


Figure Q-34. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-265. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.36E+04 | 8.83E+04 | 8.36E+04 | 8.83E+04 | -1.41E+05 | 1.40E+05 |
| 1/20 | 8.59E+04 | 7.89E+04 | 9.30E+04 | 7.89E+04 | 9.30E+04 | -1.41E+05 | 1.41E+05 |
| 1/15 | 8.59E+04 | 7.65E+04 | 9.54E+04 | 7.65E+04 | 9.53E+04 | -1.41E+05 | 1.41E+05 |
| 1/10 | 8.60E+04 | 7.18E+04 | 1.00E+05 | 7.18E+04 | 1.00E+05 | -1.41E+05 | 1.41E+05 |

Table Q-266. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.37E+04 | 8.74E+04 | 8.37E+04 | 8.74E+04 | -1.13E+05 | 1.08E+05 |
| 1/20 | 8.77E+04 | 7.83E+04 | 9.76E+04 | 7.85E+04 | 9.75E+04 | -1.85E+05 | 1.96E+05 |
| 1/15 | 8.97E+04 | 7.45E+04 | 1.05E+05 | 7.47E+04 | 1.05E+05 | -2.24E+05 | 2.31E+05 |
| 1/10 | 9.18E+04 | 4.84E+04 | 1.13E+05 | 5.16E+04 | 1.13E+05 | -4.02E+05 | 2.08E+05 |

Table Q-267. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.31E+04 | 8.84E+04 | 8.31E+04 | 8.84E+04 | -1.51E+05 | 1.67E+05 |
| 1/20 | 8.69E+04 | 7.71E+04 | 9.83E+04 | 7.71E+04 | 9.83E+04 | -1.98E+05 | 2.27E+05 |
| 1/15 | 8.80E+04 | 7.31E+04 | 1.04E+05 | 7.31E+04 | 1.04E+05 | -2.24E+05 | 2.40E+05 |
| 1/10 | 9.58E+04 | 7.65E+04 | 1.16E+05 | 7.65E+04 | 1.16E+05 | -1.94E+05 | 2.01E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-268. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.15E+04 | 7.92E+04 | 8.39E+04 | 7.92E+04 | 8.39E+04 | -1.41E+05 | 1.43E+05 |
| 1/20 | 7.92E+04 | 7.23E+04 | 8.65E+04 | 7.23E+04 | 8.65E+04 | -1.39E+05 | 1.46E+05 |
| 1/15 | 7.72E+04 | 6.80E+04 | 8.70E+04 | 6.80E+04 | 8.70E+04 | -1.38E+05 | 1.47E+05 |
| 1/10 | 7.13E+04 | 5.77E+04 | 8.63E+04 | 5.77E+04 | 8.63E+04 | -1.37E+05 | 1.49E+05 |

Table Q-269. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.12E+04 | 7.86E+04 | 8.36E+04 | 7.86E+04 | 8.36E+04 | -1.56E+05 | 1.46E+05 |
| 1/20 | 7.72E+04 | 6.80E+04 | 8.55E+04 | 6.80E+04 | 8.55E+04 | -1.83E+05 | 1.67E+05 |
| 1/15 | 7.45E+04 | 6.22E+04 | 8.52E+04 | 6.22E+04 | 8.52E+04 | -1.84E+05 | 1.61E+05 |
| 1/10 | 7.18E+04 | 5.97E+04 | 8.19E+04 | 5.97E+04 | 8.19E+04 | -1.21E+05 | 1.01E+05 |

Table Q-270. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered F_z^{ptot} Min. Max. (kN) (kN) | | Filtered $(F_z^{\text{ptot}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 8.10E+04 | 7.71E+04 | 8.59E+04 | 7.72E+04 | 8.54E+04 | -2.32E+05 | 2.64E+05 |
| 1/20 | 7.83E+04 | 6.52E+04 | 9.19E+04 | 6.55E+04 | 9.15E+04 | -2.57E+05 | 2.64E+05 |
| 1/15 | 7.66E+04 | 5.40E+04 | 9.61E+04 | 5.47E+04 | 9.47E+04 | -3.29E+05 | 2.71E+05 |
| 1/10 | 7.94E+04 | 4.93E+04 | 1.03E+05 | 5.19E+04 | 1.02E+05 | -2.75E+05 | 2.23E+05 |

Table Q–271. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–272. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.43E+04 | 8.24E+04 | 8.63E+04 | 8.24E+04 | 8.62E+04 | -1.11E+05 | 1.17E+05 |
| 1/20 | 7.50E+04 | 6.19E+04 | 8.25E+04 | 6.33E+04 | 8.23E+04 | -2.35E+05 | 1.45E+05 |
| 1/15 | 6.57E+04 | 4.34E+04 | 7.82E+04 | 4.59E+04 | 7.81E+04 | -2.97E+05 | 1.85E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

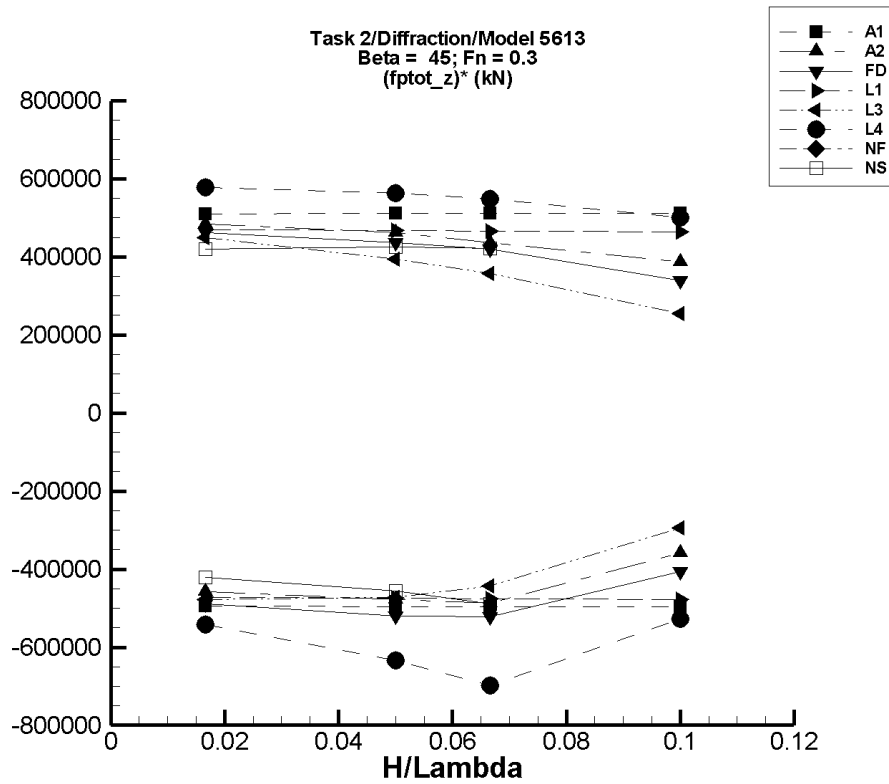


Figure Q-35. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-273. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 7.73E+04 | 9.46E+04 | 7.76E+04 | 9.44E+04 | -4.95E+05 | 5.10E+05 |
| 1/20 | 8.59E+04 | 6.01E+04 | 1.12E+05 | 6.11E+04 | 1.11E+05 | -4.96E+05 | 5.11E+05 |
| 1/15 | 8.59E+04 | 5.15E+04 | 1.21E+05 | 5.28E+04 | 1.20E+05 | -4.97E+05 | 5.12E+05 |
| 1/10 | 8.59E+04 | 3.43E+04 | 1.38E+05 | 3.62E+04 | 1.37E+05 | -4.97E+05 | 5.12E+05 |

Table Q-274. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.77E+04 | 9.40E+04 | 7.80E+04 | 9.37E+04 | -4.57E+05 | 4.85E+05 |
| 1/20 | 8.77E+04 | 6.32E+04 | 1.11E+05 | 6.38E+04 | 1.11E+05 | -4.79E+05 | 4.61E+05 |
| 1/15 | 8.96E+04 | 5.67E+04 | 1.20E+05 | 5.71E+04 | 1.19E+05 | -4.87E+05 | 4.36E+05 |
| 1/10 | 9.33E+04 | 3.46E+04 | 1.34E+05 | 5.74E+04 | 1.32E+05 | -3.59E+05 | 3.87E+05 |

Table Q-275. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.74E+04 | 9.33E+04 | 7.74E+04 | 9.33E+04 | -4.89E+05 | 4.61E+05 |
| 1/20 | 8.69E+04 | 6.08E+04 | 1.09E+05 | 6.09E+04 | 1.09E+05 | -5.20E+05 | 4.36E+05 |
| 1/15 | 8.80E+04 | 5.30E+04 | 1.16E+05 | 5.31E+04 | 1.16E+05 | -5.23E+05 | 4.19E+05 |
| 1/10 | 9.58E+04 | 5.51E+04 | 1.30E+05 | 5.52E+04 | 1.30E+05 | -4.05E+05 | 3.38E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-276. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|-------------|------------------------------------------------|-------------|----------------------------------------------------|-------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | 8.13E+04 | 7.34E+04 | 8.92E+04 | 7.34E+04 | 8.91E+04 | -4.73E+05 | 4.70E+05 |
| 1/20 | 7.72E+04 | 5.34E+04 | 1.01E+05 | 5.34E+04 | 1.01E+05 | -4.75E+05 | 4.68E+05 |
| 1/15 | 7.35E+04 | 4.18E+04 | 1.05E+05 | 4.18E+04 | 1.05E+05 | -4.76E+05 | 4.66E+05 |
| 1/10 | 6.32E+04 | 1.53E+04 | 1.10E+05 | 1.53E+04 | 1.10E+05 | -4.79E+05 | 4.64E+05 |

Table Q-277. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|-------------|------------------------------------------------|-------------|----------------------------------------------------|-------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | 8.10E+04 | 7.30E+04 | 8.84E+04 | 7.30E+04 | 8.84E+04 | -4.79E+05 | 4.49E+05 |
| 1/20 | 7.51E+04 | 5.15E+04 | 9.48E+04 | 5.15E+04 | 9.48E+04 | -4.72E+05 | 3.94E+05 |
| 1/15 | 7.08E+04 | 4.12E+04 | 9.46E+04 | 4.12E+04 | 9.46E+04 | -4.44E+05 | 3.57E+05 |
| 1/10 | 6.35E+04 | 3.40E+04 | 8.90E+04 | 3.40E+04 | 8.90E+04 | -2.95E+05 | 2.54E+05 |

Table Q-278. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|-------------|------------------------------------------------|-------------|----------------------------------------------------|-------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | 8.06E+04 | 7.15E+04 | 9.03E+04 | 7.16E+04 | 9.03E+04 | -5.43E+05 | 5.78E+05 |
| 1/20 | 7.51E+04 | 4.22E+04 | 1.04E+05 | 4.33E+04 | 1.03E+05 | -6.35E+05 | 5.64E+05 |
| 1/15 | 7.14E+04 | 2.39E+04 | 1.08E+05 | 2.48E+04 | 1.08E+05 | -6.99E+05 | 5.48E+05 |
| 1/10 | 7.22E+04 | 1.54E+04 | 1.55E+05 | 1.94E+04 | 1.22E+05 | -5.28E+05 | 5.00E+05 |

Table Q–279. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–280. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 7.78E+04 | 9.20E+04 | 7.79E+04 | 9.19E+04 | -4.20E+05 | 4.20E+05 |
| 1/20 | 7.67E+04 | 5.28E+04 | 9.85E+04 | 5.39E+04 | 9.79E+04 | -4.56E+05 | 4.25E+05 |
| 1/15 | 7.14E+04 | 3.77E+04 | 1.01E+05 | 3.88E+04 | 9.95E+04 | -4.89E+05 | 4.22E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

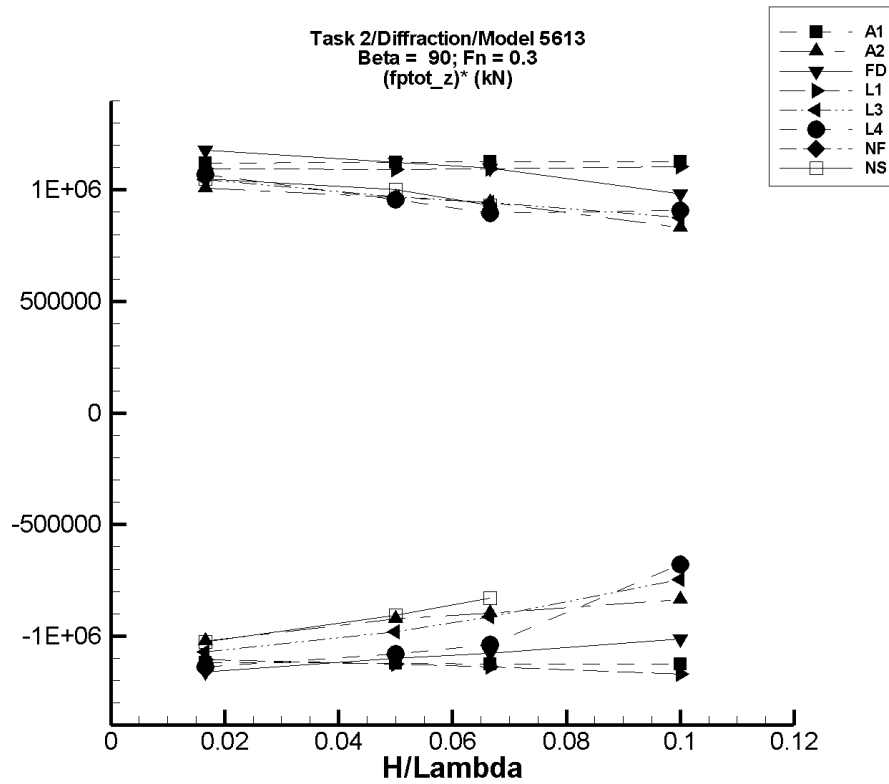


Figure Q-36. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–281. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.60E+04 | 6.71E+04 | 1.05E+05 | 6.73E+04 | 1.05E+05 | -1.12E+06 | 1.12E+06 |
| 1/20 | 8.62E+04 | 2.95E+04 | 1.43E+05 | 3.01E+04 | 1.42E+05 | -1.12E+06 | 1.12E+06 |
| 1/15 | 8.63E+04 | 1.06E+04 | 1.62E+05 | 1.13E+04 | 1.61E+05 | -1.12E+06 | 1.13E+06 |
| 1/10 | 8.65E+04 | -2.71E+04 | 2.00E+05 | -2.59E+04 | 1.99E+05 | -1.12E+06 | 1.13E+06 |

Table Q–282. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.57E+04 | 6.85E+04 | 1.03E+05 | 6.87E+04 | 1.03E+05 | -1.02E+06 | 1.01E+06 |
| 1/20 | 8.81E+04 | 4.12E+04 | 1.36E+05 | 4.19E+04 | 1.36E+05 | -9.24E+05 | 9.65E+05 |
| 1/15 | 9.01E+04 | 2.98E+04 | 1.54E+05 | 3.04E+04 | 1.53E+05 | -8.96E+05 | 9.42E+05 |
| 1/10 | 9.48E+04 | 8.63E+03 | 1.81E+05 | 1.12E+04 | 1.78E+05 | -8.35E+05 | 8.30E+05 |

Table Q–283. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 6.60E+04 | 1.05E+05 | 6.62E+04 | 1.05E+05 | -1.16E+06 | 1.18E+06 |
| 1/20 | 8.69E+04 | 3.13E+04 | 1.44E+05 | 3.19E+04 | 1.43E+05 | -1.10E+06 | 1.12E+06 |
| 1/15 | 8.81E+04 | 1.54E+04 | 1.62E+05 | 1.63E+04 | 1.61E+05 | -1.08E+06 | 1.10E+06 |
| 1/10 | 9.64E+04 | -7.54E+03 | 1.96E+05 | -4.77E+03 | 1.95E+05 | -1.01E+06 | 9.83E+05 |

Table Q–284. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.11E+04 | 6.26E+04 | 9.94E+04 | 6.27E+04 | 9.94E+04 | -1.11E+06 | 1.09E+06 |
| 1/20 | 7.56E+04 | 1.90E+04 | 1.30E+05 | 1.93E+04 | 1.30E+05 | -1.13E+06 | 1.09E+06 |
| 1/15 | 7.07E+04 | -5.54E+03 | 1.44E+05 | -5.23E+03 | 1.44E+05 | -1.14E+06 | 1.09E+06 |
| 1/10 | 5.69E+04 | -6.06E+04 | 1.68E+05 | -6.01E+04 | 1.67E+05 | -1.17E+06 | 1.10E+06 |

Table Q–285. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.08E+04 | 6.28E+04 | 9.83E+04 | 6.29E+04 | 9.82E+04 | -1.07E+06 | 1.05E+06 |
| 1/20 | 7.35E+04 | 2.42E+04 | 1.22E+05 | 2.44E+04 | 1.22E+05 | -9.81E+05 | 9.69E+05 |
| 1/15 | 6.80E+04 | 6.78E+03 | 1.31E+05 | 7.04E+03 | 1.31E+05 | -9.15E+05 | 9.43E+05 |
| 1/10 | 5.73E+04 | -1.83E+04 | 1.46E+05 | -1.72E+04 | 1.45E+05 | -7.45E+05 | 8.77E+05 |

Table Q–286. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.02E+04 | 6.11E+04 | 9.81E+04 | 6.12E+04 | 9.80E+04 | -1.14E+06 | 1.07E+06 |
| 1/20 | 7.17E+04 | 1.67E+04 | 1.20E+05 | 1.76E+04 | 1.20E+05 | -1.08E+06 | 9.57E+05 |
| 1/15 | 6.62E+04 | -3.94E+03 | 1.26E+05 | -3.18E+03 | 1.26E+05 | -1.04E+06 | 8.96E+05 |
| 1/10 | 6.28E+04 | -1.82E+04 | 2.24E+05 | -5.01E+03 | 1.54E+05 | -6.78E+05 | 9.09E+05 |

Table Q–287. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–288. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.36E+04 | 6.63E+04 | 1.01E+05 | 6.65E+04 | 1.01E+05 | -1.03E+06 | 1.05E+06 |
| 1/20 | 7.55E+04 | 2.96E+04 | 1.28E+05 | 3.02E+04 | 1.26E+05 | -9.07E+05 | 1.00E+06 |
| 1/15 | 6.87E+04 | 1.29E+04 | 1.31E+05 | 1.33E+04 | 1.31E+05 | -8.31E+05 | 9.31E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

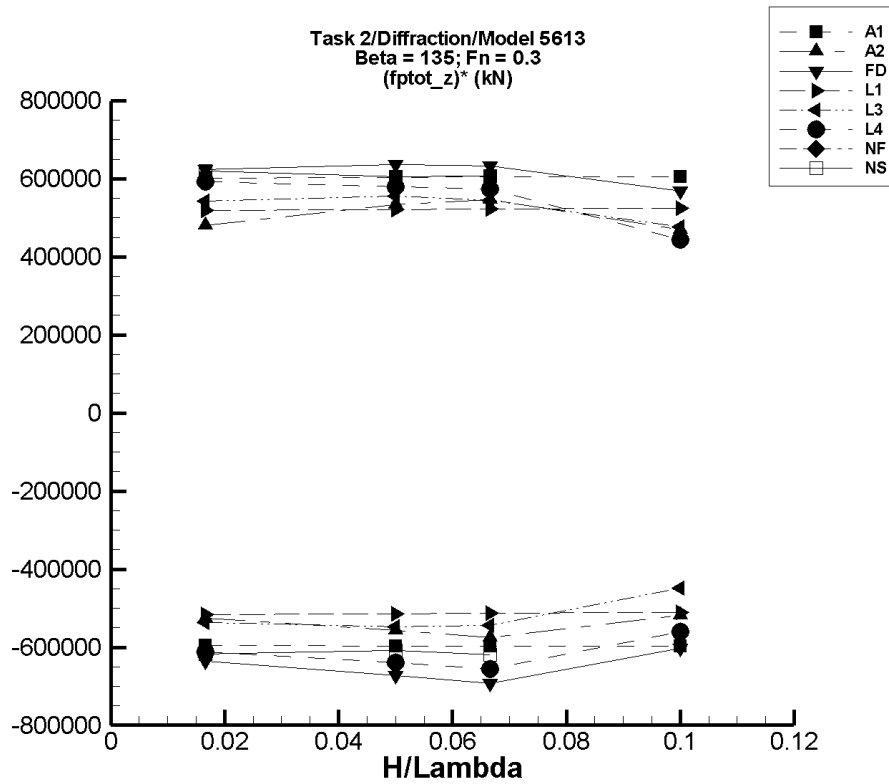


Figure Q-37. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–289. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 7.57E+04 | 9.61E+04 | 7.60E+04 | 9.60E+04 | -5.95E+05 | 6.02E+05 |
| 1/20 | 8.59E+04 | 5.52E+04 | 1.17E+05 | 5.61E+04 | 1.16E+05 | -5.97E+05 | 6.04E+05 |
| 1/15 | 8.60E+04 | 4.49E+04 | 1.27E+05 | 4.61E+04 | 1.26E+05 | -5.97E+05 | 6.04E+05 |
| 1/10 | 8.60E+04 | 2.44E+04 | 1.47E+05 | 2.62E+04 | 1.46E+05 | -5.97E+05 | 6.04E+05 |

Table Q–290. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.67E+04 | 9.37E+04 | 7.69E+04 | 9.36E+04 | -5.25E+05 | 4.81E+05 |
| 1/20 | 8.78E+04 | 5.92E+04 | 1.15E+05 | 5.99E+04 | 1.14E+05 | -5.58E+05 | 5.33E+05 |
| 1/15 | 8.97E+04 | 5.05E+04 | 1.27E+05 | 5.14E+04 | 1.26E+05 | -5.74E+05 | 5.46E+05 |
| 1/10 | 9.35E+04 | 3.73E+04 | 1.42E+05 | 4.17E+04 | 1.40E+05 | -5.18E+05 | 4.70E+05 |

Table Q–291. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 7.47E+04 | 9.62E+04 | 7.50E+04 | 9.60E+04 | -6.36E+05 | 6.23E+05 |
| 1/20 | 8.69E+04 | 5.26E+04 | 1.19E+05 | 5.33E+04 | 1.19E+05 | -6.72E+05 | 6.36E+05 |
| 1/15 | 8.79E+04 | 4.07E+04 | 1.30E+05 | 4.18E+04 | 1.30E+05 | -6.92E+05 | 6.33E+05 |
| 1/10 | 9.57E+04 | 3.37E+04 | 1.53E+05 | 3.54E+04 | 1.53E+05 | -6.03E+05 | 5.69E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–292. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.13E+04 | 7.26E+04 | 9.00E+04 | 7.27E+04 | 9.00E+04 | -5.16E+05 | 5.19E+05 |
| 1/20 | 7.72E+04 | 5.13E+04 | 1.04E+05 | 5.15E+04 | 1.03E+05 | -5.14E+05 | 5.22E+05 |
| 1/15 | 7.37E+04 | 3.92E+04 | 1.09E+05 | 3.95E+04 | 1.09E+05 | -5.13E+05 | 5.23E+05 |
| 1/10 | 6.35E+04 | 1.20E+04 | 1.16E+05 | 1.24E+04 | 1.16E+05 | -5.10E+05 | 5.25E+05 |

Table Q–293. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.10E+04 | 7.20E+04 | 9.01E+04 | 7.20E+04 | 9.00E+04 | -5.36E+05 | 5.44E+05 |
| 1/20 | 7.52E+04 | 4.76E+04 | 1.03E+05 | 4.78E+04 | 1.03E+05 | -5.48E+05 | 5.55E+05 |
| 1/15 | 7.09E+04 | 3.44E+04 | 1.08E+05 | 3.47E+04 | 1.07E+05 | -5.44E+05 | 5.44E+05 |
| 1/10 | 6.39E+04 | 1.87E+04 | 1.12E+05 | 1.90E+04 | 1.12E+05 | -4.49E+05 | 4.77E+05 |

Table Q–294. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.01E+04 | 6.98E+04 | 9.04E+04 | 6.99E+04 | 8.99E+04 | -6.11E+05 | 5.93E+05 |
| 1/20 | 7.08E+04 | 3.85E+04 | 1.00E+05 | 3.89E+04 | 9.98E+04 | -6.39E+05 | 5.80E+05 |
| 1/15 | 6.48E+04 | 2.05E+04 | 1.05E+05 | 2.11E+04 | 1.03E+05 | -6.56E+05 | 5.73E+05 |
| 1/10 | 6.00E+04 | 1.03E+03 | 1.08E+05 | 3.90E+03 | 1.04E+05 | -5.61E+05 | 4.43E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–295. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–296. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.38E+04 | 7.33E+04 | 9.42E+04 | 7.35E+04 | 9.42E+04 | -6.17E+05 | 6.20E+05 |
| 1/20 | 7.61E+04 | 4.47E+04 | 1.11E+05 | 4.56E+04 | 1.06E+05 | -6.09E+05 | 6.05E+05 |
| 1/15 | 6.98E+04 | 2.80E+04 | 1.16E+05 | 2.86E+04 | 1.10E+05 | -6.19E+05 | 6.06E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

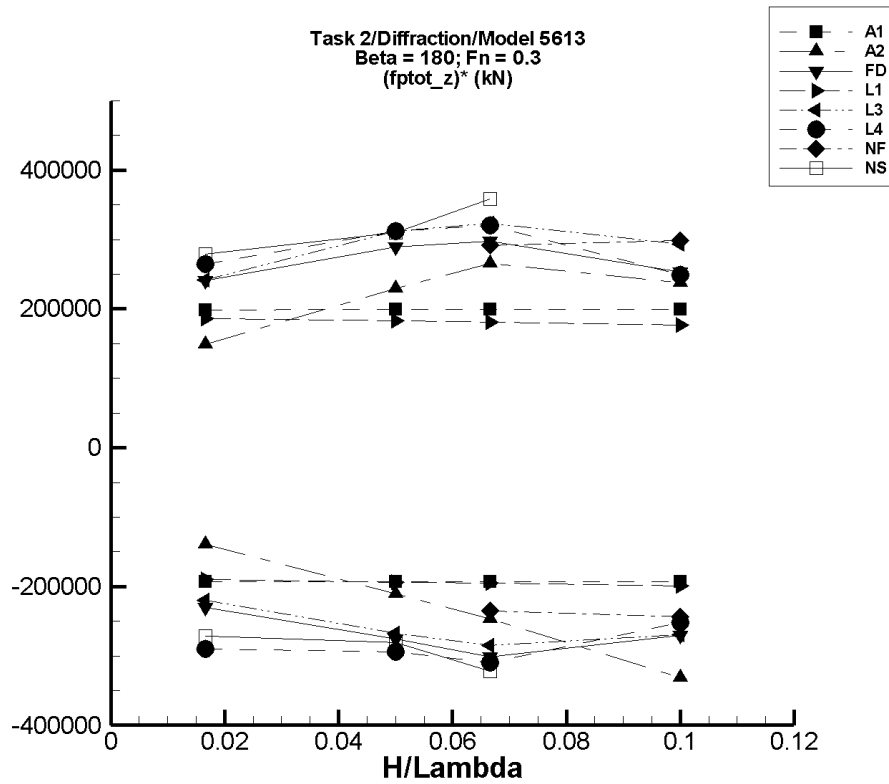


Figure Q-38. Minimum and maximum of filtered $(F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–297. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.26E+04 | 8.94E+04 | 8.27E+04 | 8.92E+04 | -1.93E+05 | 1.99E+05 |
| 1/20 | 8.58E+04 | 7.58E+04 | 9.65E+04 | 7.61E+04 | 9.58E+04 | -1.93E+05 | 1.99E+05 |
| 1/15 | 8.58E+04 | 7.25E+04 | 1.00E+05 | 7.29E+04 | 9.91E+04 | -1.93E+05 | 1.99E+05 |
| 1/10 | 8.57E+04 | 6.57E+04 | 1.07E+05 | 6.64E+04 | 1.06E+05 | -1.93E+05 | 1.99E+05 |

Table Q–298. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.30E+04 | 8.83E+04 | 8.33E+04 | 8.81E+04 | -1.39E+05 | 1.49E+05 |
| 1/20 | 8.76E+04 | 7.68E+04 | 1.00E+05 | 7.70E+04 | 9.91E+04 | -2.11E+05 | 2.30E+05 |
| 1/15 | 8.95E+04 | 7.25E+04 | 1.08E+05 | 7.30E+04 | 1.07E+05 | -2.47E+05 | 2.65E+05 |
| 1/10 | 9.17E+04 | 4.74E+04 | 1.16E+05 | 5.86E+04 | 1.15E+05 | -3.31E+05 | 2.38E+05 |

Table Q–299. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.16E+04 | 8.97E+04 | 8.17E+04 | 8.96E+04 | -2.30E+05 | 2.40E+05 |
| 1/20 | 8.69E+04 | 7.27E+04 | 1.02E+05 | 7.31E+04 | 1.01E+05 | -2.76E+05 | 2.89E+05 |
| 1/15 | 8.80E+04 | 6.73E+04 | 1.08E+05 | 6.79E+04 | 1.08E+05 | -3.02E+05 | 2.97E+05 |
| 1/10 | 9.58E+04 | 6.80E+04 | 1.22E+05 | 6.88E+04 | 1.21E+05 | -2.70E+05 | 2.53E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–300. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.15E+04 | 7.83E+04 | 8.46E+04 | 7.83E+04 | 8.46E+04 | -1.90E+05 | 1.86E+05 |
| 1/20 | 7.86E+04 | 6.88E+04 | 8.78E+04 | 6.89E+04 | 8.77E+04 | -1.94E+05 | 1.83E+05 |
| 1/15 | 7.61E+04 | 6.29E+04 | 8.83E+04 | 6.31E+04 | 8.82E+04 | -1.96E+05 | 1.81E+05 |
| 1/10 | 6.90E+04 | 4.88E+04 | 8.68E+04 | 4.91E+04 | 8.67E+04 | -1.99E+05 | 1.77E+05 |

Table Q–301. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.11E+04 | 7.74E+04 | 8.52E+04 | 7.75E+04 | 8.51E+04 | -2.19E+05 | 2.42E+05 |
| 1/20 | 7.66E+04 | 6.31E+04 | 9.24E+04 | 6.32E+04 | 9.22E+04 | -2.67E+05 | 3.12E+05 |
| 1/15 | 7.34E+04 | 5.43E+04 | 9.53E+04 | 5.45E+04 | 9.50E+04 | -2.84E+05 | 3.23E+05 |
| 1/10 | 6.94E+04 | 4.22E+04 | 9.91E+04 | 4.25E+04 | 9.87E+04 | -2.69E+05 | 2.93E+05 |

Table Q–302. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------|--------------------------------------------------|---------------------|------------------------------------------------|---------------------|----------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered F_z^{ptot} | | Filtered F_z^{ptot} | | Filtered $(F_z^{\text{ptot}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.02E+04 | 7.52E+04 | 8.47E+04 | 7.53E+04 | 8.46E+04 | -2.90E+05 | 2.64E+05 |
| 1/20 | 7.15E+04 | 5.65E+04 | 8.87E+04 | 5.68E+04 | 8.70E+04 | -2.94E+05 | 3.12E+05 |
| 1/15 | 6.62E+04 | 4.48E+04 | 8.98E+04 | 4.55E+04 | 8.75E+04 | -3.09E+05 | 3.20E+05 |
| 1/10 | 6.15E+04 | 2.25E+04 | 9.49E+04 | 3.64E+04 | 8.65E+04 | -2.51E+05 | 2.49E+05 |

Table Q-303. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{ptot} Max. (kN) | Filtered Min. (kN) | F_z^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | 8.01E+04 | 6.85E+04 | 9.54E+04 | 6.89E+04 | 9.42E+04 | -2.24E+05 | 2.81E+05 |
| 1/15 | 8.13E+04 | 6.54E+04 | 1.02E+05 | 6.56E+04 | 1.01E+05 | -2.35E+05 | 2.91E+05 |
| 1/10 | 8.00E+04 | 5.53E+04 | 1.10E+05 | 5.56E+04 | 1.10E+05 | -2.43E+05 | 2.98E+05 |

Table Q-304. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------------------------|----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------------|
| (H/λ) | $\langle F_z^{\text{ptot}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{ptot} Max. (kN) | Filtered Min. (kN) | F_z^{ptot} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{ptot}})^*$ Max. (kN) |
| 1/60 | 8.39E+04 | 7.93E+04 | 8.86E+04 | 7.94E+04 | 8.85E+04 | -2.71E+05 | 2.79E+05 |
| 1/20 | 7.71E+04 | 6.23E+04 | 9.65E+04 | 6.31E+04 | 9.26E+04 | -2.81E+05 | 3.10E+05 |
| 1/15 | 7.17E+04 | 4.92E+04 | 1.09E+05 | 5.02E+04 | 9.56E+04 | -3.22E+05 | 3.58E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

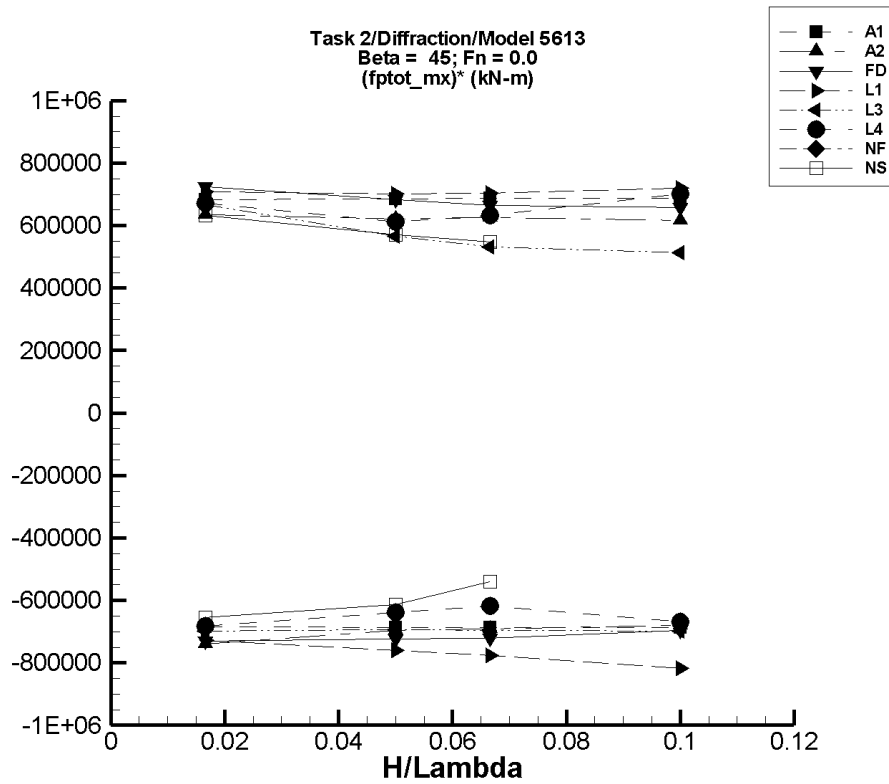


Figure Q–39. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-305. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 2.92 | -1.15E+04 | 1.15E+04 | -1.14E+04 | 1.14E+04 | -6.85E+05 | 6.84E+05 |
| 1/20 | 8.80 | -3.47E+04 | 3.46E+04 | -3.43E+04 | 3.43E+04 | -6.87E+05 | 6.86E+05 |
| 1/15 | 11.7 | -4.63E+04 | 4.63E+04 | -4.58E+04 | 4.58E+04 | -6.88E+05 | 6.87E+05 |
| 1/10 | 17.6 | -6.94E+04 | 6.94E+04 | -6.87E+04 | 6.87E+04 | -6.88E+05 | 6.87E+05 |

Table Q-306. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 26.7 | -1.26E+04 | 1.08E+04 | -1.23E+04 | 1.06E+04 | -7.39E+05 | 6.34E+05 |
| 1/20 | -103. | -3.75E+04 | 3.12E+04 | -3.49E+04 | 3.10E+04 | -6.97E+05 | 6.22E+05 |
| 1/15 | -143. | -4.77E+04 | 4.27E+04 | -4.62E+04 | 4.15E+04 | -6.91E+05 | 6.24E+05 |
| 1/10 | -1.18E+03 | -8.23E+04 | 6.20E+04 | -6.92E+04 | 6.05E+04 | -6.80E+05 | 6.17E+05 |

Table Q-307. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -8.77 | -1.23E+04 | 1.22E+04 | -1.22E+04 | 1.21E+04 | -7.30E+05 | 7.25E+05 |
| 1/20 | -78.8 | -3.66E+04 | 3.43E+04 | -3.62E+04 | 3.40E+04 | -7.23E+05 | 6.82E+05 |
| 1/15 | -82.5 | -4.86E+04 | 4.46E+04 | -4.82E+04 | 4.43E+04 | -7.21E+05 | 6.66E+05 |
| 1/10 | -68.8 | -7.05E+04 | 6.64E+04 | -6.97E+04 | 6.57E+04 | -6.97E+05 | 6.58E+05 |

Table Q-308. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 544. | -1.16E+04 | 1.24E+04 | -1.16E+04 | 1.23E+04 | -7.28E+05 | 7.07E+05 |
| 1/20 | 4.86E+03 | -3.33E+04 | 4.01E+04 | -3.31E+04 | 3.99E+04 | -7.59E+05 | 7.02E+05 |
| 1/15 | 8.63E+03 | -4.34E+04 | 5.58E+04 | -4.32E+04 | 5.56E+04 | -7.77E+05 | 7.05E+05 |
| 1/10 | 1.94E+04 | -6.28E+04 | 9.17E+04 | -6.23E+04 | 9.14E+04 | -8.17E+05 | 7.20E+05 |

Table Q-309. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 538. | -1.12E+04 | 1.17E+04 | -1.11E+04 | 1.17E+04 | -6.99E+05 | 6.68E+05 |
| 1/20 | 4.89E+03 | -2.99E+04 | 3.32E+04 | -2.98E+04 | 3.32E+04 | -6.93E+05 | 5.66E+05 |
| 1/15 | 8.71E+03 | -3.79E+04 | 4.43E+04 | -3.77E+04 | 4.42E+04 | -6.96E+05 | 5.32E+05 |
| 1/10 | 1.94E+04 | -5.09E+04 | 7.10E+04 | -5.05E+04 | 7.08E+04 | -6.99E+05 | 5.14E+05 |

Table Q-310. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 357. | -1.14E+04 | 1.18E+04 | -1.10E+04 | 1.15E+04 | -6.83E+05 | 6.70E+05 |
| 1/20 | 2.15E+03 | -3.20E+04 | 3.50E+04 | -2.98E+04 | 3.27E+04 | -6.38E+05 | 6.11E+05 |
| 1/15 | -134. | -4.70E+04 | 4.44E+04 | -4.14E+04 | 4.21E+04 | -6.18E+05 | 6.33E+05 |
| 1/10 | -9.42E+03 | -9.58E+04 | 6.66E+04 | -7.62E+04 | 6.07E+04 | -6.68E+05 | 7.01E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-311. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-312. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 79.0 | -1.10E+04 | 1.08E+04 | -1.09E+04 | 1.06E+04 | -6.56E+05 | 6.31E+05 |
| 1/20 | -114. | -3.29E+04 | 2.89E+04 | -3.08E+04 | 2.84E+04 | -6.13E+05 | 5.71E+05 |
| 1/15 | -1.61E+03 | -3.76E+04 | 3.57E+04 | -3.76E+04 | 3.49E+04 | -5.40E+05 | 5.47E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

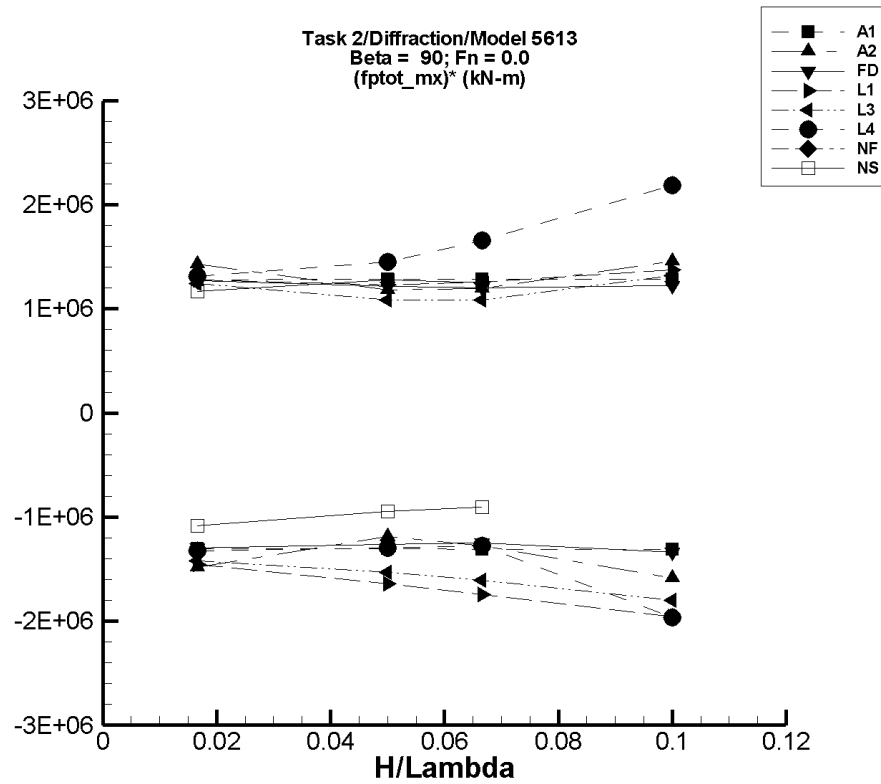


Figure Q-40. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-313. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 17.8 | -2.16E+04 | 2.17E+04 | -2.17E+04 | 2.14E+04 | -1.30E+06 | 1.28E+06 |
| 1/20 | 53.5 | -6.50E+04 | 6.52E+04 | -6.52E+04 | 6.43E+04 | -1.31E+06 | 1.28E+06 |
| 1/15 | 71.4 | -8.68E+04 | 8.70E+04 | -8.71E+04 | 8.58E+04 | -1.31E+06 | 1.29E+06 |
| 1/10 | 107. | -1.30E+05 | 1.31E+05 | -1.31E+05 | 1.29E+05 | -1.31E+06 | 1.29E+06 |

Table Q-314. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 26.0 | -2.48E+04 | 2.50E+04 | -2.47E+04 | 2.38E+04 | -1.48E+06 | 1.43E+06 |
| 1/20 | -234. | -6.33E+04 | 6.06E+04 | -5.95E+04 | 5.88E+04 | -1.19E+06 | 1.18E+06 |
| 1/15 | 197. | -8.98E+04 | 8.42E+04 | -8.48E+04 | 8.01E+04 | -1.27E+06 | 1.20E+06 |
| 1/10 | 161. | -1.71E+05 | 1.55E+05 | -1.59E+05 | 1.46E+05 | -1.59E+06 | 1.46E+06 |

Table Q–315. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -17.7 | -2.17E+04 | 2.14E+04 | -2.17E+04 | 2.11E+04 | -1.30E+06 | 1.27E+06 |
| 1/20 | -48.3 | -6.36E+04 | 6.20E+04 | -6.31E+04 | 6.07E+04 | -1.26E+06 | 1.22E+06 |
| 1/15 | -78.4 | -8.47E+04 | 8.19E+04 | -8.34E+04 | 8.02E+04 | -1.25E+06 | 1.20E+06 |
| 1/10 | 109. | -1.34E+05 | 1.24E+05 | -1.33E+05 | 1.22E+05 | -1.34E+06 | 1.22E+06 |

Table Q–316. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.39E+03 | -2.28E+04 | 2.28E+04 | -2.28E+04 | 2.27E+04 | -1.45E+06 | 1.28E+06 |
| 1/20 | 1.25E+04 | -7.01E+04 | 7.42E+04 | -6.96E+04 | 7.40E+04 | -1.64E+06 | 1.23E+06 |
| 1/15 | 2.22E+04 | -9.48E+04 | 1.07E+05 | -9.41E+04 | 1.06E+05 | -1.74E+06 | 1.26E+06 |
| 1/10 | 5.00E+04 | -1.47E+05 | 1.89E+05 | -1.45E+05 | 1.88E+05 | -1.95E+06 | 1.38E+06 |

Table Q–317. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 1.39E+03 | -2.22E+04 | 2.22E+04 | -2.22E+04 | 2.21E+04 | -1.42E+06 | 1.25E+06 |
| 1/20 | 1.25E+04 | -6.46E+04 | 6.72E+04 | -6.40E+04 | 6.69E+04 | -1.53E+06 | 1.09E+06 |
| 1/15 | 2.22E+04 | -8.59E+04 | 9.46E+04 | -8.49E+04 | 9.44E+04 | -1.61E+06 | 1.08E+06 |
| 1/10 | 5.00E+04 | -1.31E+05 | 1.83E+05 | -1.30E+05 | 1.82E+05 | -1.80E+06 | 1.32E+06 |

Table Q–318. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 709. | -2.15E+04 | 2.36E+04 | -2.13E+04 | 2.25E+04 | -1.32E+06 | 1.31E+06 |
| 1/20 | 4.47E+03 | -6.22E+04 | 7.96E+04 | -6.02E+04 | 7.70E+04 | -1.29E+06 | 1.45E+06 |
| 1/15 | -502. | -8.98E+04 | 1.17E+05 | -8.56E+04 | 1.10E+05 | -1.28E+06 | 1.66E+06 |
| 1/10 | -2.35E+04 | -2.32E+05 | 2.11E+05 | -2.20E+05 | 1.95E+05 | -1.97E+06 | 2.19E+06 |

Table Q-319. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-320. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 87.1 | -1.80E+04 | 1.98E+04 | -1.79E+04 | 1.96E+04 | -1.08E+06 | 1.17E+06 |
| 1/20 | -224. | -5.14E+04 | 6.75E+04 | -4.75E+04 | 6.36E+04 | -9.46E+05 | 1.28E+06 |
| 1/15 | -1.97E+03 | -6.35E+04 | 8.65E+04 | -6.22E+04 | 8.15E+04 | -9.03E+05 | 1.25E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

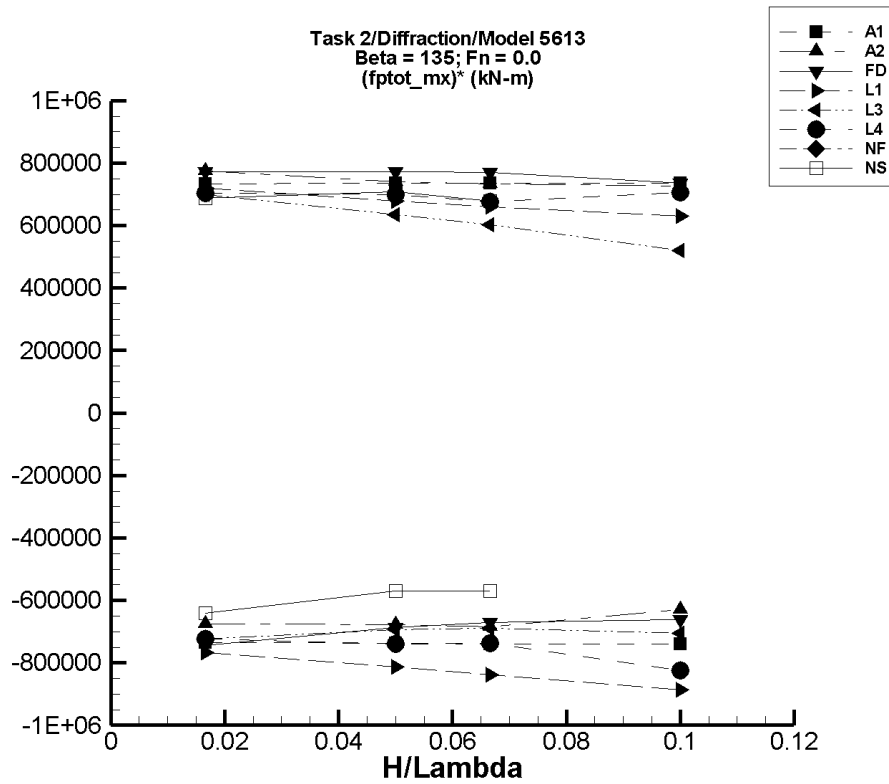


Figure Q-41. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-321. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 14.4 | -1.24E+04 | 1.24E+04 | -1.23E+04 | 1.22E+04 | -7.36E+05 | 7.33E+05 |
| 1/20 | 43.2 | -3.72E+04 | 3.72E+04 | -3.68E+04 | 3.68E+04 | -7.38E+05 | 7.35E+05 |
| 1/15 | 57.7 | -4.97E+04 | 4.96E+04 | -4.92E+04 | 4.91E+04 | -7.39E+05 | 7.36E+05 |
| 1/10 | 86.5 | -7.45E+04 | 7.45E+04 | -7.38E+04 | 7.37E+04 | -7.39E+05 | 7.36E+05 |

Table Q-322. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 29.7 | -1.14E+04 | 1.33E+04 | -1.12E+04 | 1.29E+04 | -6.75E+05 | 7.75E+05 |
| 1/20 | 178. | -3.42E+04 | 3.93E+04 | -3.37E+04 | 3.72E+04 | -6.78E+05 | 7.41E+05 |
| 1/15 | 582. | -4.56E+04 | 6.87E+04 | -4.50E+04 | 4.95E+04 | -6.84E+05 | 7.34E+05 |
| 1/10 | 324. | -6.30E+04 | 7.57E+04 | -6.25E+04 | 7.29E+04 | -6.29E+05 | 7.26E+05 |

Table Q–323. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 8.40 | -1.25E+04 | 1.30E+04 | -1.24E+04 | 1.29E+04 | -7.45E+05 | 7.74E+05 |
| 1/20 | 108. | -3.45E+04 | 3.92E+04 | -3.42E+04 | 3.87E+04 | -6.87E+05 | 7.73E+05 |
| 1/15 | 173. | -4.49E+04 | 5.21E+04 | -4.45E+04 | 5.15E+04 | -6.70E+05 | 7.70E+05 |
| 1/10 | 147. | -6.65E+04 | 7.45E+04 | -6.60E+04 | 7.38E+04 | -6.61E+05 | 7.37E+05 |

Table Q–324. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 840. | -1.20E+04 | 1.29E+04 | -1.19E+04 | 1.28E+04 | -7.67E+05 | 7.21E+05 |
| 1/20 | 7.50E+03 | -3.34E+04 | 4.15E+04 | -3.32E+04 | 4.14E+04 | -8.14E+05 | 6.78E+05 |
| 1/15 | 1.33E+04 | -4.28E+04 | 5.74E+04 | -4.25E+04 | 5.73E+04 | -8.38E+05 | 6.59E+05 |
| 1/10 | 2.99E+04 | -5.91E+04 | 9.31E+04 | -5.86E+04 | 9.30E+04 | -8.85E+05 | 6.31E+05 |

Table Q-325. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 843. | -1.13E+04 | 1.25E+04 | -1.12E+04 | 1.25E+04 | -7.24E+05 | 6.98E+05 |
| 1/20 | 7.48E+03 | -2.74E+04 | 3.93E+04 | -2.72E+04 | 3.92E+04 | -6.94E+05 | 6.35E+05 |
| 1/15 | 1.33E+04 | -3.29E+04 | 5.36E+04 | -3.27E+04 | 5.35E+04 | -6.90E+05 | 6.03E+05 |
| 1/10 | 2.99E+04 | -4.10E+04 | 8.22E+04 | -4.07E+04 | 8.19E+04 | -7.06E+05 | 5.20E+05 |

Table Q-326. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 695. | -1.16E+04 | 1.30E+04 | -1.14E+04 | 1.24E+04 | -7.24E+05 | 7.04E+05 |
| 1/20 | 3.60E+03 | -3.52E+04 | 4.06E+04 | -3.34E+04 | 3.86E+04 | -7.39E+05 | 6.99E+05 |
| 1/15 | 1.80E+03 | -5.02E+04 | 4.85E+04 | -4.74E+04 | 4.69E+04 | -7.38E+05 | 6.77E+05 |
| 1/10 | -1.08E+04 | -9.88E+04 | 1.30E+05 | -9.32E+04 | 5.98E+04 | -8.24E+05 | 7.06E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-327. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-328. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 71.7 | -1.08E+04 | 1.17E+04 | -1.06E+04 | 1.15E+04 | -6.42E+05 | 6.88E+05 |
| 1/20 | -144. | -3.24E+04 | 3.69E+04 | -2.86E+04 | 3.53E+04 | -5.70E+05 | 7.08E+05 |
| 1/15 | -1.66E+03 | -5.14E+04 | 4.42E+04 | -3.96E+04 | 4.36E+04 | -5.69E+05 | 6.79E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

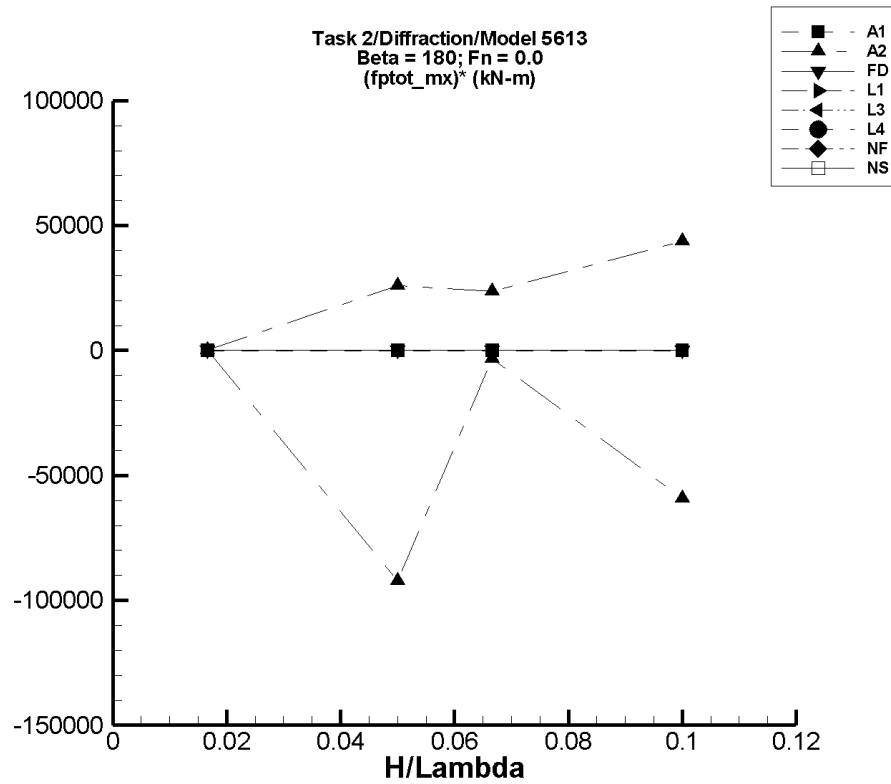


Figure Q-42. Minimum and maximum of filtered $(M_x^{ptot} - \langle M_x^{ptot} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-329. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.38E-05 | -2.94E-02 | 2.99E-02 | -2.91E-02 | 2.96E-02 | -1.75 | 1.77 |
| 1/20 | 4.15E-05 | -8.86E-02 | 8.99E-02 | -8.75E-02 | 8.89E-02 | -1.75 | 1.78 |
| 1/15 | 5.55E-05 | -0.118 | 0.120 | -0.117 | 0.119 | -1.75 | 1.78 |
| 1/10 | 8.32E-05 | -0.177 | 0.180 | -0.175 | 0.178 | -1.75 | 1.78 |

Table Q-330. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.98E-05 | -1.74E-02 | 1.86E-02 | -1.72E-02 | 1.83E-02 | -1.03 | 1.10 |
| 1/20 | -121. | -3.53E+04 | 8.83E+03 | -4.73E+03 | 1.18E+03 | -9.21E+04 | 2.60E+04 |
| 1/15 | 70.1 | -7.00E-02 | 1.23E+04 | -141. | 1.65E+03 | -3.16E+03 | 2.36E+04 |
| 1/10 | -80.9 | -4.48E+04 | 3.06E+04 | -6.00E+03 | 4.29E+03 | -5.92E+04 | 4.37E+04 |

Table Q-331. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.10E-05 | -5.03E-03 | 4.25E-03 | -1.00E-03 | 1.26E-03 | -6.13E-02 | 7.41E-02 |
| 1/20 | 1.26E-04 | -1.36E-02 | 1.31E-02 | -2.82E-03 | 3.37E-03 | -5.90E-02 | 6.49E-02 |
| 1/15 | 2.86E-04 | -1.77E-02 | 2.17E-02 | -3.80E-03 | 4.98E-03 | -6.12E-02 | 7.05E-02 |
| 1/10 | 4.70E-04 | -2.80E-02 | 3.82E-02 | -5.38E-03 | 8.34E-03 | -5.85E-02 | 7.87E-02 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–332. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–333. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–334. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–335. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–336. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.77E-04 | -1.52E-02 | 1.61E-02 | -2.57E-03 | 4.31E-03 | -0.143 | 0.269 |
| 1/20 | -6.69E-04 | -4.15E-02 | 6.10E-02 | -2.57E-02 | 1.86E-02 | -0.501 | 0.386 |
| 1/15 | -4.12E-04 | -0.268 | 0.277 | -1.37E-02 | 9.06E-03 | -0.199 | 0.142 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

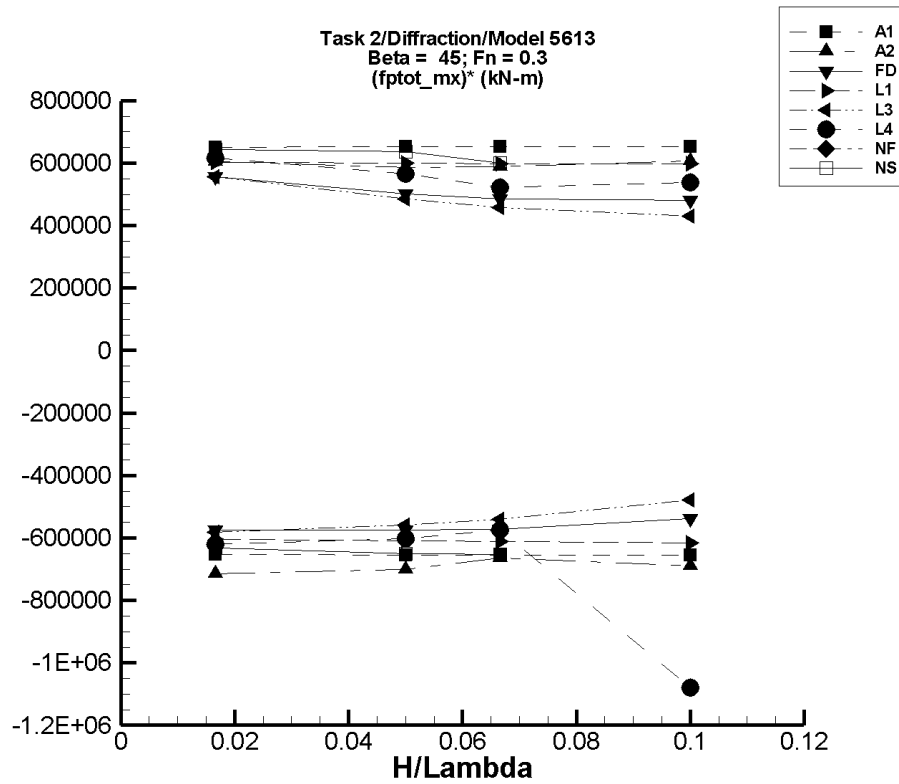


Figure Q-43. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-337. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -2.46 | -1.09E+04 | 1.10E+04 | -1.09E+04 | 1.08E+04 | -6.53E+05 | 6.51E+05 |
| 1/20 | -7.41 | -3.28E+04 | 3.32E+04 | -3.27E+04 | 3.26E+04 | -6.55E+05 | 6.53E+05 |
| 1/15 | -9.90 | -4.38E+04 | 4.43E+04 | -4.37E+04 | 4.36E+04 | -6.56E+05 | 6.54E+05 |
| 1/10 | -14.8 | -6.57E+04 | 6.64E+04 | -6.56E+04 | 6.54E+04 | -6.56E+05 | 6.54E+05 |

Table Q-338. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 36.8 | -1.20E+04 | 1.01E+04 | -1.19E+04 | 1.01E+04 | -7.14E+05 | 6.04E+05 |
| 1/20 | -70.8 | -3.56E+04 | 2.99E+04 | -3.51E+04 | 2.92E+04 | -7.01E+05 | 5.86E+05 |
| 1/15 | -75.1 | -4.51E+04 | 4.04E+04 | -4.44E+04 | 3.92E+04 | -6.65E+05 | 5.89E+05 |
| 1/10 | -997. | -1.42E+05 | 5.87E+04 | -6.99E+04 | 5.97E+04 | -6.89E+05 | 6.07E+05 |

Table Q-339. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -4.21 | -9.62E+03 | 9.27E+03 | -9.60E+03 | 9.26E+03 | -5.76E+05 | 5.56E+05 |
| 1/20 | -6.05 | -2.88E+04 | 2.51E+04 | -2.87E+04 | 2.51E+04 | -5.74E+05 | 5.02E+05 |
| 1/15 | -6.76 | -3.82E+04 | 3.24E+04 | -3.81E+04 | 3.23E+04 | -5.72E+05 | 4.85E+05 |
| 1/10 | -41.8 | -5.41E+04 | 4.81E+04 | -5.39E+04 | 4.80E+04 | -5.39E+05 | 4.80E+05 |

Table Q-340. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 723. | -9.38E+03 | 1.08E+04 | -9.37E+03 | 1.08E+04 | -6.06E+05 | 6.02E+05 |
| 1/20 | 6.51E+03 | -2.40E+04 | 3.65E+04 | -2.40E+04 | 3.65E+04 | -6.09E+05 | 6.00E+05 |
| 1/15 | 1.16E+04 | -2.92E+04 | 5.15E+04 | -2.92E+04 | 5.15E+04 | -6.11E+05 | 5.99E+05 |
| 1/10 | 2.60E+04 | -3.56E+04 | 8.58E+04 | -3.56E+04 | 8.57E+04 | -6.16E+05 | 5.97E+05 |

Table Q-341. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 722. | -8.99E+03 | 1.00E+04 | -8.98E+03 | 1.00E+04 | -5.82E+05 | 5.57E+05 |
| 1/20 | 6.48E+03 | -2.14E+04 | 3.07E+04 | -2.14E+04 | 3.07E+04 | -5.58E+05 | 4.85E+05 |
| 1/15 | 1.15E+04 | -2.45E+04 | 4.21E+04 | -2.45E+04 | 4.21E+04 | -5.40E+05 | 4.59E+05 |
| 1/10 | 2.60E+04 | -2.20E+04 | 6.90E+04 | -2.19E+04 | 6.90E+04 | -4.79E+05 | 4.30E+05 |

Table Q-342. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 1.01E+03 | -9.41E+03 | 1.27E+04 | -9.32E+03 | 1.13E+04 | -6.20E+05 | 6.17E+05 |
| 1/20 | 6.33E+03 | -2.47E+04 | 4.15E+04 | -2.38E+04 | 3.46E+04 | -6.03E+05 | 5.66E+05 |
| 1/15 | 6.15E+03 | -3.32E+04 | 5.05E+04 | -3.21E+04 | 4.09E+04 | -5.74E+05 | 5.21E+05 |
| 1/10 | -4.71E+03 | -2.55E+05 | 6.77E+04 | -1.13E+05 | 4.91E+04 | -1.08E+06 | 5.38E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-343. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-344. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.74 | -1.06E+04 | 1.08E+04 | -1.05E+04 | 1.07E+04 | -6.31E+05 | 6.44E+05 |
| 1/20 | -1.41E+03 | -3.56E+04 | 3.09E+04 | -3.40E+04 | 3.05E+04 | -6.51E+05 | 6.37E+05 |
| 1/15 | -2.80E+03 | -4.86E+04 | 3.83E+04 | -4.62E+04 | 3.72E+04 | -6.52E+05 | 6.00E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

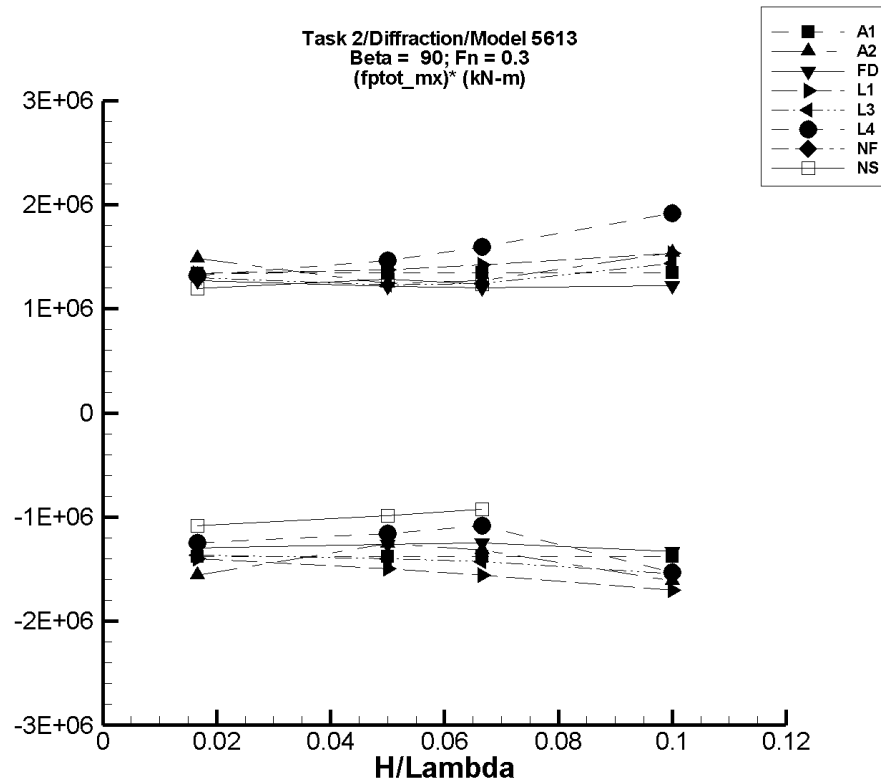


Figure Q-44. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-345. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 11.3 | -2.29E+04 | 2.29E+04 | -2.29E+04 | 2.24E+04 | -1.38E+06 | 1.34E+06 |
| 1/20 | 33.9 | -6.90E+04 | 6.90E+04 | -6.89E+04 | 6.73E+04 | -1.38E+06 | 1.34E+06 |
| 1/15 | 45.3 | -9.21E+04 | 9.22E+04 | -9.20E+04 | 8.98E+04 | -1.38E+06 | 1.35E+06 |
| 1/10 | 67.9 | -1.38E+05 | 1.38E+05 | -1.38E+05 | 1.35E+05 | -1.38E+06 | 1.35E+06 |

Table Q-346. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 19.5 | -2.61E+04 | 2.63E+04 | -2.59E+04 | 2.48E+04 | -1.56E+06 | 1.49E+06 |
| 1/20 | -254. | -6.61E+04 | 6.42E+04 | -6.31E+04 | 6.19E+04 | -1.26E+06 | 1.24E+06 |
| 1/15 | 110. | -9.29E+04 | 8.92E+04 | -8.77E+04 | 8.48E+04 | -1.32E+06 | 1.27E+06 |
| 1/10 | 121. | -1.73E+05 | 1.64E+05 | -1.61E+05 | 1.54E+05 | -1.62E+06 | 1.54E+06 |

Table Q-347. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -17.6 | -2.17E+04 | 2.14E+04 | -2.17E+04 | 2.11E+04 | -1.30E+06 | 1.27E+06 |
| 1/20 | -48.1 | -6.35E+04 | 6.20E+04 | -6.30E+04 | 6.08E+04 | -1.26E+06 | 1.22E+06 |
| 1/15 | -78.1 | -8.45E+04 | 8.19E+04 | -8.33E+04 | 8.03E+04 | -1.25E+06 | 1.21E+06 |
| 1/10 | 110. | -1.34E+05 | 1.24E+05 | -1.33E+05 | 1.23E+05 | -1.33E+06 | 1.22E+06 |

Table Q-348. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 936. | -2.23E+04 | 2.33E+04 | -2.24E+04 | 2.33E+04 | -1.40E+06 | 1.34E+06 |
| 1/20 | 8.39E+03 | -6.67E+04 | 7.76E+04 | -6.63E+04 | 7.73E+04 | -1.49E+06 | 1.38E+06 |
| 1/15 | 1.49E+04 | -8.97E+04 | 1.10E+05 | -8.91E+04 | 1.10E+05 | -1.56E+06 | 1.42E+06 |
| 1/10 | 3.35E+04 | -1.38E+05 | 1.88E+05 | -1.37E+05 | 1.87E+05 | -1.70E+06 | 1.54E+06 |

Table Q-349. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 928. | -2.17E+04 | 2.26E+04 | -2.18E+04 | 2.25E+04 | -1.36E+06 | 1.30E+06 |
| 1/20 | 8.37E+03 | -6.16E+04 | 7.03E+04 | -6.15E+04 | 7.00E+04 | -1.40E+06 | 1.23E+06 |
| 1/15 | 1.49E+04 | -8.10E+04 | 9.80E+04 | -8.02E+04 | 9.78E+04 | -1.43E+06 | 1.24E+06 |
| 1/10 | 3.36E+04 | -1.22E+05 | 1.79E+05 | -1.21E+05 | 1.78E+05 | -1.55E+06 | 1.44E+06 |

Table Q-350. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 1.05E+03 | -2.04E+04 | 2.42E+04 | -1.98E+04 | 2.30E+04 | -1.25E+06 | 1.32E+06 |
| 1/20 | 6.12E+03 | -5.21E+04 | 8.34E+04 | -5.17E+04 | 7.92E+04 | -1.16E+06 | 1.46E+06 |
| 1/15 | 4.70E+03 | -6.82E+04 | 1.18E+05 | -6.73E+04 | 1.11E+05 | -1.08E+06 | 1.59E+06 |
| 1/10 | -1.62E+04 | -3.13E+05 | 1.90E+05 | -1.69E+05 | 1.76E+05 | -1.53E+06 | 1.92E+06 |

Table Q-351. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-352. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -128. | -1.83E+04 | 2.00E+04 | -1.82E+04 | 1.97E+04 | -1.09E+06 | 1.19E+06 |
| 1/20 | -1.28E+03 | -5.40E+04 | 6.67E+04 | -5.08E+04 | 6.29E+04 | -9.90E+05 | 1.28E+06 |
| 1/15 | -1.02E+03 | -6.39E+04 | 8.62E+04 | -6.27E+04 | 8.14E+04 | -9.25E+05 | 1.24E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

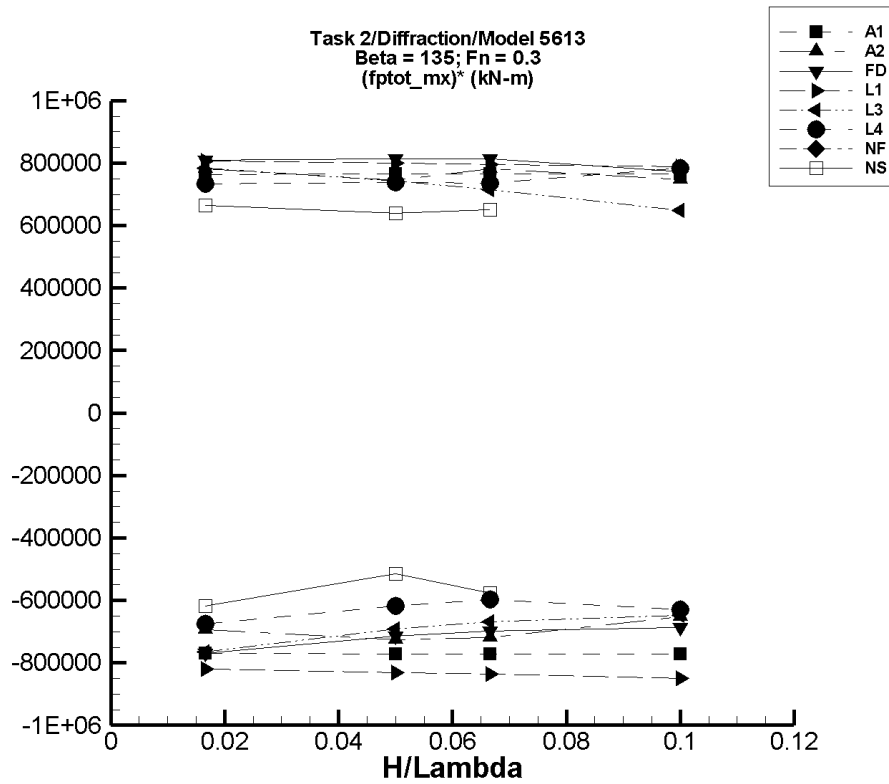


Figure Q-45. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-353. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 2.42 | -1.31E+04 | 1.30E+04 | -1.28E+04 | 1.27E+04 | -7.69E+05 | 7.63E+05 |
| 1/20 | 7.29 | -3.94E+04 | 3.92E+04 | -3.85E+04 | 3.82E+04 | -7.71E+05 | 7.65E+05 |
| 1/15 | 9.74 | -5.26E+04 | 5.24E+04 | -5.14E+04 | 5.11E+04 | -7.72E+05 | 7.66E+05 |
| 1/10 | 14.6 | -7.90E+04 | 7.86E+04 | -7.72E+04 | 7.66E+04 | -7.72E+05 | 7.66E+05 |

Table Q-354. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 43.8 | -1.20E+04 | 1.38E+04 | -1.15E+04 | 1.31E+04 | -6.93E+05 | 7.81E+05 |
| 1/20 | 155. | -3.74E+04 | 4.08E+04 | -3.61E+04 | 3.75E+04 | -7.25E+05 | 7.46E+05 |
| 1/15 | 70.9 | -4.93E+04 | 5.51E+04 | -4.78E+04 | 5.21E+04 | -7.18E+05 | 7.81E+05 |
| 1/10 | 182. | -6.62E+04 | 8.01E+04 | -6.51E+04 | 7.50E+04 | -6.53E+05 | 7.48E+05 |

Table Q-355. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.27 | -1.30E+04 | 1.38E+04 | -1.28E+04 | 1.35E+04 | -7.70E+05 | 8.09E+05 |
| 1/20 | 41.0 | -3.61E+04 | 4.19E+04 | -3.56E+04 | 4.08E+04 | -7.13E+05 | 8.14E+05 |
| 1/15 | 25.8 | -4.71E+04 | 5.58E+04 | -4.65E+04 | 5.43E+04 | -6.98E+05 | 8.14E+05 |
| 1/10 | 27.2 | -6.94E+04 | 7.95E+04 | -6.85E+04 | 7.74E+04 | -6.86E+05 | 7.73E+05 |

Table Q-356. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered $(M_x^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 618. | -1.31E+04 | 1.42E+04 | -1.30E+04 | 1.41E+04 | -8.19E+05 | 8.08E+05 |
| 1/20 | 5.55E+03 | -3.63E+04 | 4.58E+04 | -3.60E+04 | 4.55E+04 | -8.31E+05 | 7.99E+05 |
| 1/15 | 9.86E+03 | -4.64E+04 | 6.33E+04 | -4.59E+04 | 6.29E+04 | -8.36E+05 | 7.95E+05 |
| 1/10 | 2.22E+04 | -6.36E+04 | 1.02E+05 | -6.28E+04 | 1.01E+05 | -8.50E+05 | 7.89E+05 |

Table Q-357. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 619. | -1.22E+04 | 1.38E+04 | -1.21E+04 | 1.37E+04 | -7.65E+05 | 7.83E+05 |
| 1/20 | 5.59E+03 | -2.93E+04 | 4.30E+04 | -2.90E+04 | 4.27E+04 | -6.93E+05 | 7.42E+05 |
| 1/15 | 9.91E+03 | -3.50E+04 | 5.79E+04 | -3.47E+04 | 5.76E+04 | -6.69E+05 | 7.16E+05 |
| 1/10 | 2.22E+04 | -4.30E+04 | 8.75E+04 | -4.25E+04 | 8.71E+04 | -6.47E+05 | 6.49E+05 |

Table Q-358. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 678. | -1.12E+04 | 1.32E+04 | -1.06E+04 | 1.29E+04 | -6.74E+05 | 7.34E+05 |
| 1/20 | 3.89E+03 | -3.13E+04 | 4.14E+04 | -2.70E+04 | 4.08E+04 | -6.18E+05 | 7.38E+05 |
| 1/15 | 2.67E+03 | -4.26E+04 | 5.26E+04 | -3.72E+04 | 5.18E+04 | -5.98E+05 | 7.37E+05 |
| 1/10 | -8.82E+03 | -9.09E+04 | 1.52E+05 | -7.18E+04 | 6.96E+04 | -6.30E+05 | 7.84E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-359. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-360. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -12.8 | -1.04E+04 | 1.14E+04 | -1.03E+04 | 1.11E+04 | -6.18E+05 | 6.65E+05 |
| 1/20 | -453. | -4.00E+04 | 3.39E+04 | -2.62E+04 | 3.16E+04 | -5.15E+05 | 6.40E+05 |
| 1/15 | -2.03E+03 | -6.38E+04 | 4.21E+04 | -4.05E+04 | 4.14E+04 | -5.77E+05 | 6.52E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

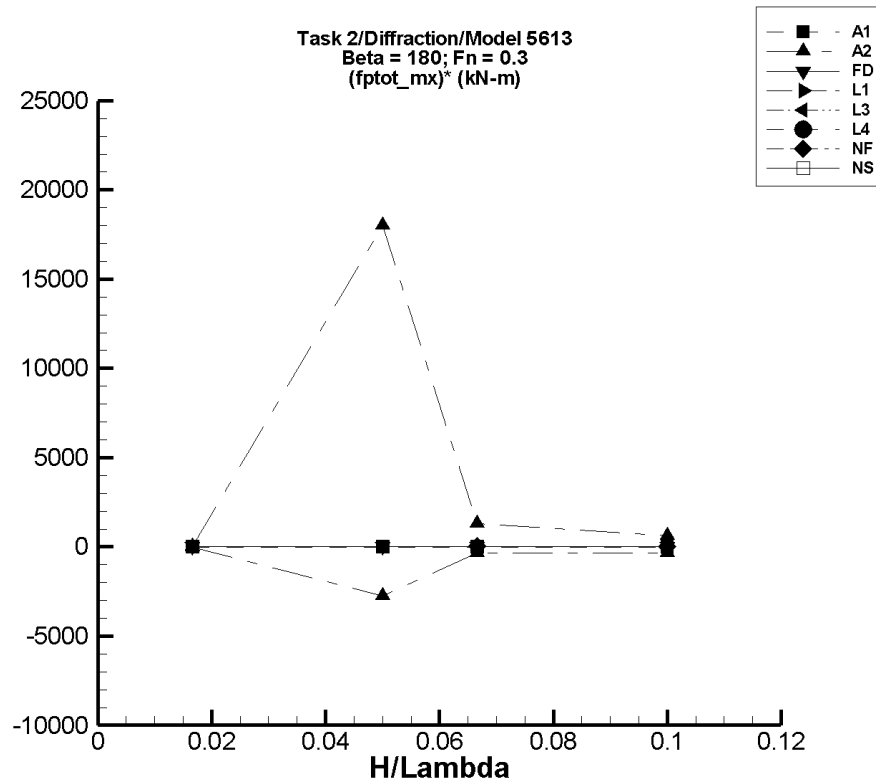


Figure Q-46. Minimum and maximum of filtered $(M_x^{\text{ptot}} - \langle M_x^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-361. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -8.94E-04 | -0.121 | 0.116 | -0.117 | 0.113 | -6.96 | 6.82 |
| 1/20 | -2.69E-03 | -0.363 | 0.349 | -0.352 | 0.339 | -6.98 | 6.84 |
| 1/15 | -3.59E-03 | -0.484 | 0.467 | -0.469 | 0.453 | -6.99 | 6.85 |
| 1/10 | -5.38E-03 | -0.726 | 0.700 | -0.704 | 0.679 | -6.99 | 6.85 |

Table Q-362. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.28E-04 | -9.99E-02 | 9.53E-02 | -9.66E-02 | 9.25E-02 | -5.74 | 5.60 |
| 1/20 | 56.0 | -0.300 | 7.17E+03 | -82.2 | 956. | -2.76E+03 | 1.80E+04 |
| 1/15 | 14.5 | -0.399 | 759. | -8.43 | 102. | -344. | 1.31E+03 |
| 1/10 | 3.97 | -200. | 475. | -31.7 | 64.4 | -356. | 605. |

Table Q-363. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.54E-05 | -3.39E-03 | 3.89E-03 | -2.57E-03 | 2.46E-03 | -0.157 | 0.145 |
| 1/20 | -9.03E-05 | -1.03E-02 | 1.02E-02 | -7.94E-03 | 6.81E-03 | -0.157 | 0.138 |
| 1/15 | -4.86E-05 | -1.35E-02 | 1.57E-02 | -1.04E-02 | 1.04E-02 | -0.156 | 0.157 |
| 1/10 | 8.97E-04 | -2.05E-02 | 2.68E-02 | -1.65E-02 | 1.61E-02 | -0.174 | 0.153 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–364. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–365. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–366. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ | Unfiltered M_x^{ptot} | | Filtered M_x^{ptot} | | Filtered $(M_x^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-367. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|-------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | -5.55E-12 | -7.42E-11 | 9.10E-11 | -5.49E-11 | 6.55E-11 | -9.87E-10 | 1.42E-09 |
| 1/15 | 3.50E-11 | -1.61E-10 | 1.57E-10 | -1.18E-10 | 1.01E-10 | -2.30E-09 | 9.87E-10 |
| 1/10 | 3.73E-11 | -3.78E-10 | 3.04E-10 | -2.82E-10 | 1.99E-10 | -3.20E-09 | 1.62E-09 |

Table Q-368. Minimum and Maximum of Variables M_x^{ptot} and $(M_x^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|-------------------------------------------|
| (H/λ) | $\langle M_x^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -4.03E-04 | -9.51E-02 | 0.112 | -5.11E-03 | 3.27E-03 | -0.282 | 0.220 |
| 1/20 | -8.21E-04 | -7.19E-02 | 0.111 | -2.84E-02 | 1.22E-02 | -0.552 | 0.261 |
| 1/15 | -5.26E-04 | -0.504 | 0.470 | -2.77E-02 | 1.63E-02 | -0.407 | 0.252 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

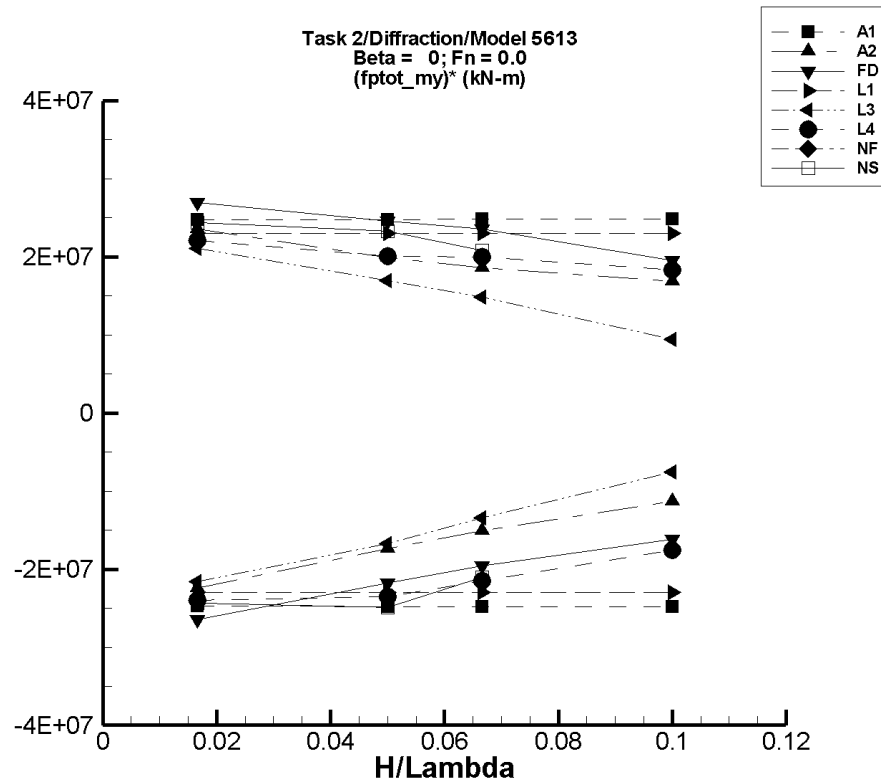


Figure Q-47. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-369. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|------------------------------|------------------------------------------------|------------------------------|----------------------------------------------------|------------------------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -668. | -4.17E+05 | 4.16E+05 | -4.13E+05 | 4.11E+05 | -2.47E+07 | 2.47E+07 |
| 1/20 | -2.01E+03 | -1.26E+06 | 1.25E+06 | -1.24E+06 | 1.24E+06 | -2.48E+07 | 2.48E+07 |
| 1/15 | -2.68E+03 | -1.68E+06 | 1.67E+06 | -1.66E+06 | 1.65E+06 | -2.48E+07 | 2.48E+07 |
| 1/10 | -4.02E+03 | -2.51E+06 | 2.50E+06 | -2.49E+06 | 2.48E+06 | -2.48E+07 | 2.48E+07 |

Table Q-370. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------------------------|------------------------------|------------------------------------------------|------------------------------|----------------------------------------------------|------------------------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.33E+04 | -3.44E+05 | 4.29E+05 | -3.41E+05 | 4.26E+05 | -2.25E+07 | 2.35E+07 |
| 1/20 | 1.67E+05 | -7.34E+05 | 1.19E+06 | -7.00E+05 | 1.16E+06 | -1.73E+07 | 1.99E+07 |
| 1/15 | 2.67E+05 | -7.71E+05 | 1.52E+06 | -7.41E+05 | 1.50E+06 | -1.51E+07 | 1.86E+07 |
| 1/10 | 4.59E+05 | -7.20E+05 | 2.27E+06 | -6.73E+05 | 2.15E+06 | -1.13E+07 | 1.69E+07 |

Table Q-371. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.11E+04 | -4.24E+05 | 4.74E+05 | -4.20E+05 | 4.70E+05 | -2.64E+07 | 2.69E+07 |
| 1/20 | 1.43E+05 | -9.48E+05 | 1.38E+06 | -9.44E+05 | 1.37E+06 | -2.17E+07 | 2.46E+07 |
| 1/15 | 2.37E+05 | -1.08E+06 | 1.82E+06 | -1.07E+06 | 1.81E+06 | -1.96E+07 | 2.35E+07 |
| 1/10 | 4.01E+05 | -1.24E+06 | 2.38E+06 | -1.22E+06 | 2.36E+06 | -1.62E+07 | 1.96E+07 |

Table Q-372. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.94E+03 | -3.89E+05 | 3.79E+05 | -3.87E+05 | 3.78E+05 | -2.29E+07 | 2.30E+07 |
| 1/20 | -4.22E+04 | -1.19E+06 | 1.11E+06 | -1.19E+06 | 1.11E+06 | -2.29E+07 | 2.30E+07 |
| 1/15 | -7.45E+04 | -1.61E+06 | 1.46E+06 | -1.60E+06 | 1.46E+06 | -2.29E+07 | 2.30E+07 |
| 1/10 | -1.67E+05 | -2.47E+06 | 2.14E+06 | -2.46E+06 | 2.13E+06 | -2.30E+07 | 2.30E+07 |

Table Q-373. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 5.87E+03 | -3.56E+05 | 3.59E+05 | -3.55E+05 | 3.57E+05 | -2.16E+07 | 2.11E+07 |
| 1/20 | 6.92E+04 | -7.75E+05 | 9.20E+05 | -7.66E+05 | 9.17E+05 | -1.67E+07 | 1.69E+07 |
| 1/15 | 1.10E+05 | -7.90E+05 | 1.10E+06 | -7.82E+05 | 1.10E+06 | -1.34E+07 | 1.49E+07 |
| 1/10 | 1.30E+05 | -6.32E+05 | 1.07E+06 | -6.30E+05 | 1.07E+06 | -7.60E+06 | 9.40E+06 |

Table Q-374. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.14E+03 | -4.00E+05 | 3.73E+05 | -3.96E+05 | 3.72E+05 | -2.40E+07 | 2.21E+07 |
| 1/20 | 7.52E+04 | -1.11E+06 | 1.09E+06 | -1.10E+06 | 1.08E+06 | -2.35E+07 | 2.01E+07 |
| 1/15 | 1.56E+05 | -1.29E+06 | 1.52E+06 | -1.28E+06 | 1.49E+06 | -2.15E+07 | 1.99E+07 |
| 1/10 | 2.95E+05 | -1.48E+06 | 2.20E+06 | -1.46E+06 | 2.13E+06 | -1.76E+07 | 1.83E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-375. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-376. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.84E+04 | -4.88E+05 | 3.33E+05 | -4.83E+05 | 3.29E+05 | -2.43E+07 | 2.44E+07 |
| 1/20 | -8.93E+04 | -1.34E+06 | 1.09E+06 | -1.34E+06 | 1.08E+06 | -2.49E+07 | 2.33E+07 |
| 1/15 | -1.95E+05 | -1.60E+06 | 1.21E+06 | -1.60E+06 | 1.19E+06 | -2.10E+07 | 2.08E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

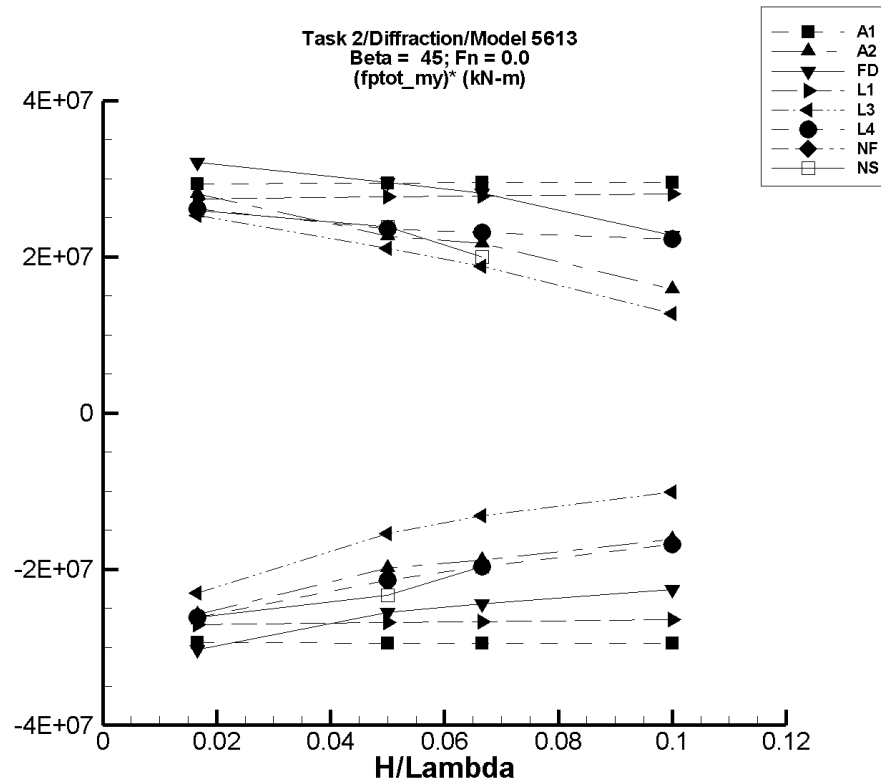


Figure Q-48. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-377. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -711. | -4.96E+05 | 4.94E+05 | -4.91E+05 | 4.89E+05 | -2.94E+07 | 2.94E+07 |
| 1/20 | -2.14E+03 | -1.49E+06 | 1.49E+06 | -1.48E+06 | 1.47E+06 | -2.95E+07 | 2.95E+07 |
| 1/15 | -2.86E+03 | -1.99E+06 | 1.98E+06 | -1.97E+06 | 1.96E+06 | -2.95E+07 | 2.95E+07 |
| 1/10 | -4.29E+03 | -2.99E+06 | 2.98E+06 | -2.96E+06 | 2.95E+06 | -2.95E+07 | 2.95E+07 |

Table Q-378. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.34E+04 | -4.05E+05 | 5.06E+05 | -3.97E+05 | 5.00E+05 | -2.58E+07 | 2.80E+07 |
| 1/20 | 1.68E+05 | -8.35E+05 | 1.32E+06 | -8.23E+05 | 1.30E+06 | -1.98E+07 | 2.26E+07 |
| 1/15 | 2.67E+05 | -1.01E+06 | 1.73E+06 | -9.92E+05 | 1.72E+06 | -1.89E+07 | 2.17E+07 |
| 1/10 | 3.84E+05 | -1.25E+06 | 2.00E+06 | -1.23E+06 | 1.96E+06 | -1.62E+07 | 1.58E+07 |

Table Q-379. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.14E+04 | -4.88E+05 | 5.62E+05 | -4.83E+05 | 5.57E+05 | -3.03E+07 | 3.21E+07 |
| 1/20 | 1.41E+05 | -1.15E+06 | 1.63E+06 | -1.14E+06 | 1.62E+06 | -2.56E+07 | 2.95E+07 |
| 1/15 | 2.33E+05 | -1.41E+06 | 2.13E+06 | -1.40E+06 | 2.11E+06 | -2.45E+07 | 2.82E+07 |
| 1/10 | 3.95E+05 | -1.89E+06 | 2.69E+06 | -1.87E+06 | 2.67E+06 | -2.26E+07 | 2.27E+07 |

Table Q-380. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.93E+03 | -4.56E+05 | 4.57E+05 | -4.54E+05 | 4.55E+05 | -2.71E+07 | 2.74E+07 |
| 1/20 | -1.60E+04 | -1.36E+06 | 1.37E+06 | -1.36E+06 | 1.37E+06 | -2.69E+07 | 2.77E+07 |
| 1/15 | -2.81E+04 | -1.82E+06 | 1.83E+06 | -1.81E+06 | 1.83E+06 | -2.67E+07 | 2.78E+07 |
| 1/10 | -6.25E+04 | -2.72E+06 | 2.76E+06 | -2.71E+06 | 2.75E+06 | -2.65E+07 | 2.81E+07 |

Table Q-381. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 9.03E+03 | -3.76E+05 | 4.32E+05 | -3.75E+05 | 4.30E+05 | -2.31E+07 | 2.53E+07 |
| 1/20 | 9.25E+04 | -6.81E+05 | 1.15E+06 | -6.79E+05 | 1.15E+06 | -1.54E+07 | 2.11E+07 |
| 1/15 | 1.52E+05 | -7.24E+05 | 1.41E+06 | -7.22E+05 | 1.40E+06 | -1.31E+07 | 1.88E+07 |
| 1/10 | 2.31E+05 | -7.84E+05 | 1.51E+06 | -7.80E+05 | 1.50E+06 | -1.01E+07 | 1.27E+07 |

Table Q-382. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.90E+03 | -4.33E+05 | 4.45E+05 | -4.30E+05 | 4.42E+05 | -2.62E+07 | 2.61E+07 |
| 1/20 | 1.02E+05 | -9.85E+05 | 1.29E+06 | -9.70E+05 | 1.28E+06 | -2.14E+07 | 2.36E+07 |
| 1/15 | 1.91E+05 | -1.14E+06 | 1.77E+06 | -1.12E+06 | 1.73E+06 | -1.96E+07 | 2.31E+07 |
| 1/10 | 3.81E+05 | -1.39E+06 | 2.98E+06 | -1.30E+06 | 2.61E+06 | -1.69E+07 | 2.23E+07 |

Table Q-383. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-384. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.83E+04 | -5.19E+05 | 3.57E+05 | -5.15E+05 | 3.53E+05 | -2.62E+07 | 2.59E+07 |
| 1/20 | -8.66E+04 | -1.27E+06 | 1.19E+06 | -1.25E+06 | 1.11E+06 | -2.34E+07 | 2.38E+07 |
| 1/15 | -1.81E+05 | -1.51E+06 | 1.18E+06 | -1.49E+06 | 1.15E+06 | -1.97E+07 | 2.00E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

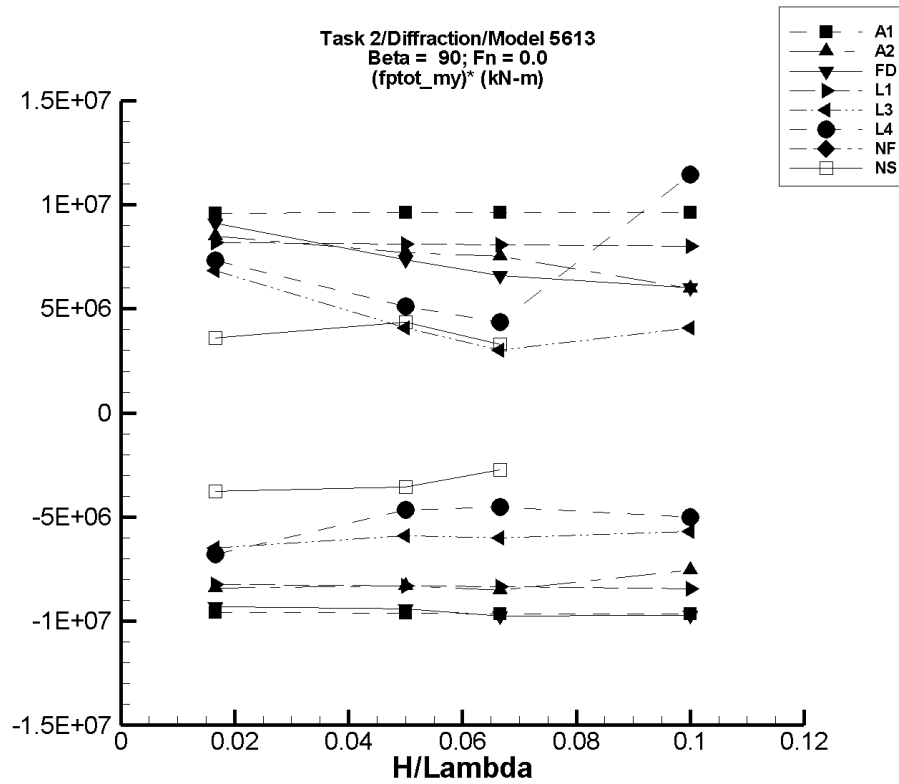


Figure Q-49. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-385. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 203. | -1.61E+05 | 1.62E+05 | -1.60E+05 | 1.60E+05 | -9.59E+06 | 9.60E+06 |
| 1/20 | 610. | -4.85E+05 | 4.88E+05 | -4.80E+05 | 4.82E+05 | -9.62E+06 | 9.62E+06 |
| 1/15 | 815. | -6.48E+05 | 6.51E+05 | -6.41E+05 | 6.43E+05 | -9.63E+06 | 9.63E+06 |
| 1/10 | 1.22E+03 | -9.72E+05 | 9.77E+05 | -9.62E+05 | 9.65E+05 | -9.63E+06 | 9.63E+06 |

Table Q-386. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.44E+04 | -1.10E+05 | 1.76E+05 | -1.06E+05 | 1.76E+05 | -8.40E+06 | 8.47E+06 |
| 1/20 | 1.75E+05 | -2.56E+05 | 5.69E+05 | -2.39E+05 | 5.60E+05 | -8.29E+06 | 7.70E+06 |
| 1/15 | 2.75E+05 | -3.21E+05 | 8.03E+05 | -2.93E+05 | 7.77E+05 | -8.52E+06 | 7.53E+06 |
| 1/10 | 3.80E+05 | -4.21E+05 | 1.03E+06 | -3.76E+05 | 9.78E+05 | -7.56E+06 | 5.98E+06 |

Table Q-387. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.17E+04 | -1.36E+05 | 1.75E+05 | -1.34E+05 | 1.73E+05 | -9.31E+06 | 9.10E+06 |
| 1/20 | 1.44E+05 | -3.39E+05 | 5.16E+05 | -3.27E+05 | 5.11E+05 | -9.41E+06 | 7.34E+06 |
| 1/15 | 2.39E+05 | -4.29E+05 | 6.86E+05 | -4.11E+05 | 6.79E+05 | -9.75E+06 | 6.60E+06 |
| 1/10 | 4.03E+05 | -5.99E+05 | 1.02E+06 | -5.70E+05 | 1.00E+06 | -9.73E+06 | 6.00E+06 |

Table Q-388. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.49E+03 | -1.39E+05 | 1.35E+05 | -1.39E+05 | 1.35E+05 | -8.24E+06 | 8.18E+06 |
| 1/20 | -1.30E+04 | -4.30E+05 | 3.94E+05 | -4.29E+05 | 3.92E+05 | -8.31E+06 | 8.11E+06 |
| 1/15 | -2.30E+04 | -5.82E+05 | 5.17E+05 | -5.80E+05 | 5.15E+05 | -8.35E+06 | 8.08E+06 |
| 1/10 | -5.16E+04 | -8.98E+05 | 7.53E+05 | -8.95E+05 | 7.50E+05 | -8.43E+06 | 8.02E+06 |

Table Q-389. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 9.62E+03 | -9.90E+04 | 1.24E+05 | -9.84E+04 | 1.24E+05 | -6.48E+06 | 6.84E+06 |
| 1/20 | 9.77E+04 | -2.02E+05 | 3.03E+05 | -1.97E+05 | 3.02E+05 | -5.90E+06 | 4.09E+06 |
| 1/15 | 1.60E+05 | -2.46E+05 | 3.63E+05 | -2.40E+05 | 3.62E+05 | -6.00E+06 | 3.03E+06 |
| 1/10 | 2.42E+05 | -3.37E+05 | 6.55E+05 | -3.28E+05 | 6.51E+05 | -5.71E+06 | 4.09E+06 |

Table Q-390. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.01E+03 | -1.07E+05 | 1.31E+05 | -1.05E+05 | 1.30E+05 | -6.79E+06 | 7.33E+06 |
| 1/20 | 9.97E+04 | -1.67E+05 | 3.82E+05 | -1.34E+05 | 3.55E+05 | -4.67E+06 | 5.10E+06 |
| 1/15 | 1.64E+05 | -1.85E+05 | 4.75E+05 | -1.38E+05 | 4.55E+05 | -4.53E+06 | 4.37E+06 |
| 1/10 | 3.27E+05 | -3.97E+05 | 2.47E+06 | -1.74E+05 | 1.47E+06 | -5.01E+06 | 1.15E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-391. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-392. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.78E+04 | -1.44E+05 | -1.18E+04 | -1.40E+05 | -1.79E+04 | -3.75E+06 | 3.59E+06 |
| 1/20 | -8.54E+04 | -2.95E+05 | 1.85E+05 | -2.63E+05 | 1.32E+05 | -3.55E+06 | 4.35E+06 |
| 1/15 | -1.68E+05 | -3.74E+05 | 4.77E+05 | -3.51E+05 | 5.09E+04 | -2.74E+06 | 3.29E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

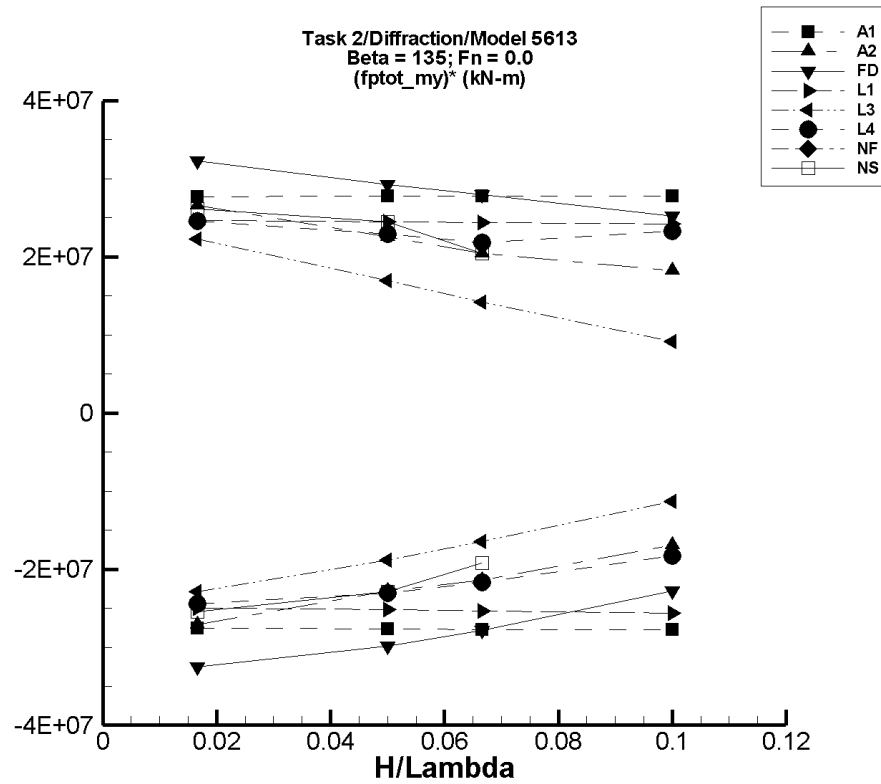


Figure Q-50. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-393. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 846. | -4.64E+05 | 4.66E+05 | -4.59E+05 | 4.62E+05 | -2.76E+07 | 2.77E+07 |
| 1/20 | 2.54E+03 | -1.40E+06 | 1.40E+06 | -1.38E+06 | 1.39E+06 | -2.77E+07 | 2.78E+07 |
| 1/15 | 3.40E+03 | -1.86E+06 | 1.87E+06 | -1.84E+06 | 1.86E+06 | -2.77E+07 | 2.78E+07 |
| 1/10 | 5.10E+03 | -2.79E+06 | 2.81E+06 | -2.77E+06 | 2.78E+06 | -2.77E+07 | 2.78E+07 |

Table Q-394. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.51E+04 | -4.22E+05 | 4.84E+05 | -4.17E+05 | 4.79E+05 | -2.72E+07 | 2.66E+07 |
| 1/20 | 1.73E+05 | -1.00E+06 | 1.31E+06 | -9.68E+05 | 1.30E+06 | -2.28E+07 | 2.25E+07 |
| 1/15 | 2.70E+05 | -1.21E+06 | 1.65E+06 | -1.15E+06 | 1.63E+06 | -2.14E+07 | 2.04E+07 |
| 1/10 | 3.76E+05 | -1.35E+06 | 2.27E+06 | -1.31E+06 | 2.20E+06 | -1.69E+07 | 1.82E+07 |

Table Q-395. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.21E+04 | -5.26E+05 | 5.65E+05 | -5.20E+05 | 5.60E+05 | -3.25E+07 | 3.22E+07 |
| 1/20 | 1.45E+05 | -1.37E+06 | 1.62E+06 | -1.35E+06 | 1.61E+06 | -2.98E+07 | 2.92E+07 |
| 1/15 | 2.39E+05 | -1.64E+06 | 2.13E+06 | -1.62E+06 | 2.10E+06 | -2.78E+07 | 2.80E+07 |
| 1/10 | 4.04E+05 | -1.91E+06 | 2.96E+06 | -1.87E+06 | 2.93E+06 | -2.28E+07 | 2.52E+07 |

Table Q-396. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.22E+03 | -4.21E+05 | 4.10E+05 | -4.19E+05 | 4.08E+05 | -2.50E+07 | 2.47E+07 |
| 1/20 | -3.16E+04 | -1.30E+06 | 1.20E+06 | -1.29E+06 | 1.19E+06 | -2.52E+07 | 2.45E+07 |
| 1/15 | -5.69E+04 | -1.75E+06 | 1.57E+06 | -1.75E+06 | 1.57E+06 | -2.53E+07 | 2.44E+07 |
| 1/10 | -1.29E+05 | -2.70E+06 | 2.30E+06 | -2.69E+06 | 2.29E+06 | -2.56E+07 | 2.42E+07 |

Table Q-397. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.74E+03 | -3.74E+05 | 3.80E+05 | -3.73E+05 | 3.79E+05 | -2.28E+07 | 2.23E+07 |
| 1/20 | 7.72E+04 | -8.73E+05 | 9.28E+05 | -8.63E+05 | 9.26E+05 | -1.88E+07 | 1.70E+07 |
| 1/15 | 1.24E+05 | -9.85E+05 | 1.07E+06 | -9.71E+05 | 1.07E+06 | -1.64E+07 | 1.42E+07 |
| 1/10 | 1.62E+05 | -9.81E+05 | 1.08E+06 | -9.68E+05 | 1.08E+06 | -1.13E+07 | 9.17E+06 |

Table Q-398. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.69E+03 | -4.14E+05 | 4.11E+05 | -4.11E+05 | 4.05E+05 | -2.44E+07 | 2.45E+07 |
| 1/20 | -1.47E+04 | -1.18E+06 | 1.15E+06 | -1.17E+06 | 1.13E+06 | -2.30E+07 | 2.30E+07 |
| 1/15 | -3.24E+04 | -1.50E+06 | 1.45E+06 | -1.48E+06 | 1.42E+06 | -2.17E+07 | 2.18E+07 |
| 1/10 | 4.31E+04 | -1.80E+06 | 2.63E+06 | -1.78E+06 | 2.37E+06 | -1.83E+07 | 2.32E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–399. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–400. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.69E+04 | -5.07E+05 | 3.64E+05 | -5.02E+05 | 3.59E+05 | -2.55E+07 | 2.61E+07 |
| 1/20 | -8.36E+04 | -1.24E+06 | 1.18E+06 | -1.23E+06 | 1.14E+06 | -2.29E+07 | 2.45E+07 |
| 1/15 | -1.79E+05 | -1.46E+06 | 1.21E+06 | -1.46E+06 | 1.18E+06 | -1.92E+07 | 2.05E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

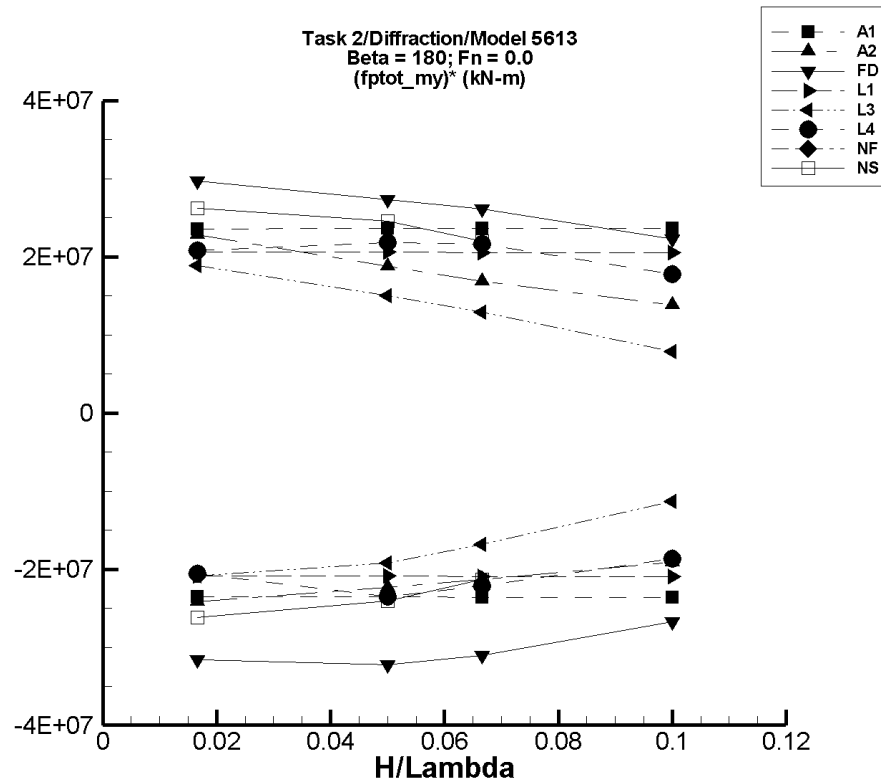


Figure Q-51. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-401. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 642. | -3.94E+05 | 3.99E+05 | -3.91E+05 | 3.93E+05 | -2.35E+07 | 2.35E+07 |
| 1/20 | 1.93E+03 | -1.19E+06 | 1.20E+06 | -1.18E+06 | 1.18E+06 | -2.36E+07 | 2.36E+07 |
| 1/15 | 2.58E+03 | -1.58E+06 | 1.60E+06 | -1.57E+06 | 1.58E+06 | -2.36E+07 | 2.36E+07 |
| 1/10 | 3.87E+03 | -2.38E+06 | 2.40E+06 | -2.36E+06 | 2.37E+06 | -2.36E+07 | 2.36E+07 |

Table Q-402. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.46E+04 | -3.72E+05 | 4.22E+05 | -3.69E+05 | 4.15E+05 | -2.42E+07 | 2.28E+07 |
| 1/20 | 1.73E+05 | -9.66E+05 | 1.14E+06 | -9.43E+05 | 1.11E+06 | -2.23E+07 | 1.88E+07 |
| 1/15 | 2.72E+05 | -1.18E+06 | 1.42E+06 | -1.15E+06 | 1.39E+06 | -2.14E+07 | 1.68E+07 |
| 1/10 | 4.63E+05 | -1.52E+06 | 1.89E+06 | -1.45E+06 | 1.85E+06 | -1.91E+07 | 1.38E+07 |

Table Q-403. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.10E+04 | -5.11E+05 | 5.21E+05 | -5.05E+05 | 5.16E+05 | -3.16E+07 | 2.97E+07 |
| 1/20 | 1.43E+05 | -1.50E+06 | 1.52E+06 | -1.47E+06 | 1.51E+06 | -3.22E+07 | 2.73E+07 |
| 1/15 | 2.38E+05 | -1.87E+06 | 1.99E+06 | -1.83E+06 | 1.98E+06 | -3.10E+07 | 2.61E+07 |
| 1/10 | 4.02E+05 | -2.31E+06 | 2.65E+06 | -2.27E+06 | 2.63E+06 | -2.67E+07 | 2.23E+07 |

Table Q-404. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.57E+03 | -3.48E+05 | 3.44E+05 | -3.49E+05 | 3.43E+05 | -2.08E+07 | 2.06E+07 |
| 1/20 | -1.56E+04 | -1.06E+06 | 1.02E+06 | -1.06E+06 | 1.01E+06 | -2.09E+07 | 2.06E+07 |
| 1/15 | -2.81E+04 | -1.42E+06 | 1.35E+06 | -1.42E+06 | 1.34E+06 | -2.09E+07 | 2.06E+07 |
| 1/10 | -6.40E+04 | -2.16E+06 | 1.99E+06 | -2.16E+06 | 1.99E+06 | -2.10E+07 | 2.05E+07 |

Table Q-405. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 9.01E+03 | -3.39E+05 | 3.25E+05 | -3.38E+05 | 3.24E+05 | -2.08E+07 | 1.89E+07 |
| 1/20 | 9.64E+04 | -8.79E+05 | 8.49E+05 | -8.66E+05 | 8.45E+05 | -1.93E+07 | 1.50E+07 |
| 1/15 | 1.57E+05 | -9.72E+05 | 1.02E+06 | -9.63E+05 | 1.02E+06 | -1.68E+07 | 1.29E+07 |
| 1/10 | 2.32E+05 | -9.08E+05 | 1.02E+06 | -8.99E+05 | 1.02E+06 | -1.13E+07 | 7.83E+06 |

Table Q-406. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -998. | -3.49E+05 | 3.50E+05 | -3.44E+05 | 3.46E+05 | -2.06E+07 | 2.08E+07 |
| 1/20 | 8.33E+03 | -1.20E+06 | 1.20E+06 | -1.17E+06 | 1.10E+06 | -2.35E+07 | 2.18E+07 |
| 1/15 | 1.96E+04 | -1.52E+06 | 1.62E+06 | -1.46E+06 | 1.46E+06 | -2.22E+07 | 2.16E+07 |
| 1/10 | 8.70E+04 | -1.83E+06 | 2.18E+06 | -1.78E+06 | 1.86E+06 | -1.87E+07 | 1.77E+07 |

Table Q-407. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-408. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.71E+04 | -5.18E+05 | 3.65E+05 | -5.14E+05 | 3.59E+05 | -2.62E+07 | 2.62E+07 |
| 1/20 | -8.78E+04 | -1.32E+06 | 1.16E+06 | -1.29E+06 | 1.14E+06 | -2.41E+07 | 2.46E+07 |
| 1/15 | -1.95E+05 | -1.65E+06 | 1.28E+06 | -1.62E+06 | 1.27E+06 | -2.13E+07 | 2.20E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

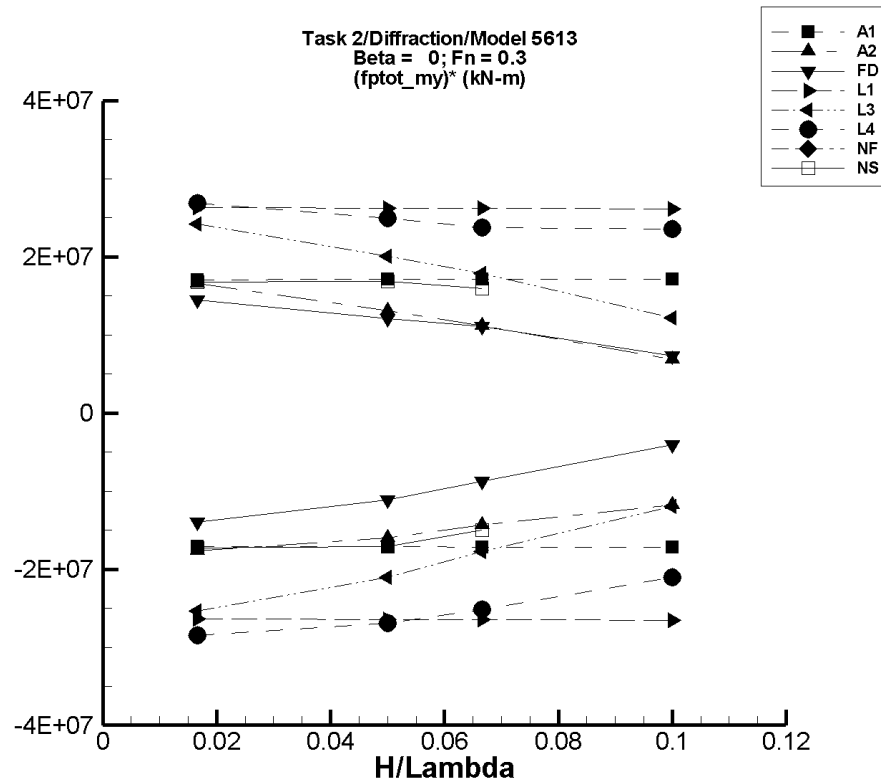


Figure Q-52. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-409. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 102. | -2.86E+05 | 2.90E+05 | -2.85E+05 | 2.84E+05 | -1.71E+07 | 1.71E+07 |
| 1/20 | 308. | -8.60E+05 | 8.73E+05 | -8.57E+05 | 8.56E+05 | -1.71E+07 | 1.71E+07 |
| 1/15 | 410. | -1.15E+06 | 1.17E+06 | -1.14E+06 | 1.14E+06 | -1.72E+07 | 1.71E+07 |
| 1/10 | 616. | -1.72E+06 | 1.75E+06 | -1.72E+06 | 1.71E+06 | -1.72E+07 | 1.71E+07 |

Table Q-410. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.41E+04 | -2.61E+05 | 3.11E+05 | -2.61E+05 | 3.11E+05 | -1.77E+07 | 1.66E+07 |
| 1/20 | 1.70E+05 | -6.47E+05 | 8.34E+05 | -6.32E+05 | 8.26E+05 | -1.60E+07 | 1.31E+07 |
| 1/15 | 2.69E+05 | -7.13E+05 | 1.03E+06 | -6.87E+05 | 1.01E+06 | -1.43E+07 | 1.11E+07 |
| 1/10 | 4.56E+05 | -7.57E+05 | 1.19E+06 | -7.19E+05 | 1.14E+06 | -1.18E+07 | 6.81E+06 |

Table Q-411. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.11E+04 | -2.12E+05 | 2.62E+05 | -2.12E+05 | 2.61E+05 | -1.40E+07 | 1.44E+07 |
| 1/20 | 1.43E+05 | -4.15E+05 | 7.48E+05 | -4.13E+05 | 7.47E+05 | -1.11E+07 | 1.21E+07 |
| 1/15 | 2.37E+05 | -3.49E+05 | 9.75E+05 | -3.48E+05 | 9.74E+05 | -8.78E+06 | 1.11E+07 |
| 1/10 | 4.01E+05 | -9.89E+03 | 1.14E+06 | -9.02E+03 | 1.13E+06 | -4.10E+06 | 7.34E+06 |

Table Q-412. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.18E+04 | -4.51E+05 | 4.27E+05 | -4.51E+05 | 4.27E+05 | -2.64E+07 | 2.63E+07 |
| 1/20 | -1.86E+04 | -1.34E+06 | 1.29E+06 | -1.34E+06 | 1.29E+06 | -2.64E+07 | 2.62E+07 |
| 1/15 | -2.43E+04 | -1.79E+06 | 1.72E+06 | -1.79E+06 | 1.72E+06 | -2.65E+07 | 2.62E+07 |
| 1/10 | -4.02E+04 | -2.70E+06 | 2.57E+06 | -2.70E+06 | 2.57E+06 | -2.66E+07 | 2.61E+07 |

Table Q-413. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -649. | -4.23E+05 | 4.03E+05 | -4.23E+05 | 4.03E+05 | -2.53E+07 | 2.42E+07 |
| 1/20 | 9.44E+04 | -9.58E+05 | 1.10E+06 | -9.58E+05 | 1.10E+06 | -2.10E+07 | 2.00E+07 |
| 1/15 | 1.62E+05 | -1.02E+06 | 1.35E+06 | -1.02E+06 | 1.35E+06 | -1.77E+07 | 1.79E+07 |
| 1/10 | 2.58E+05 | -9.45E+05 | 1.48E+06 | -9.42E+05 | 1.48E+06 | -1.20E+07 | 1.22E+07 |

Table Q-414. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.66E+04 | -5.05E+05 | 4.23E+05 | -5.01E+05 | 4.21E+05 | -2.85E+07 | 2.69E+07 |
| 1/20 | 4.33E+04 | -1.31E+06 | 1.29E+06 | -1.31E+06 | 1.29E+06 | -2.70E+07 | 2.49E+07 |
| 1/15 | 1.25E+05 | -1.57E+06 | 1.72E+06 | -1.55E+06 | 1.71E+06 | -2.52E+07 | 2.38E+07 |
| 1/10 | 3.04E+05 | -1.83E+06 | 3.08E+06 | -1.80E+06 | 2.66E+06 | -2.10E+07 | 2.36E+07 |

Table Q-415. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-416. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.90E+04 | -3.34E+05 | 2.44E+05 | -3.28E+05 | 2.41E+05 | -1.73E+07 | 1.68E+07 |
| 1/20 | -1.19E+05 | -9.85E+05 | 7.32E+05 | -9.76E+05 | 7.25E+05 | -1.71E+07 | 1.69E+07 |
| 1/15 | -1.96E+05 | -1.22E+06 | 8.77E+05 | -1.20E+06 | 8.68E+05 | -1.50E+07 | 1.60E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

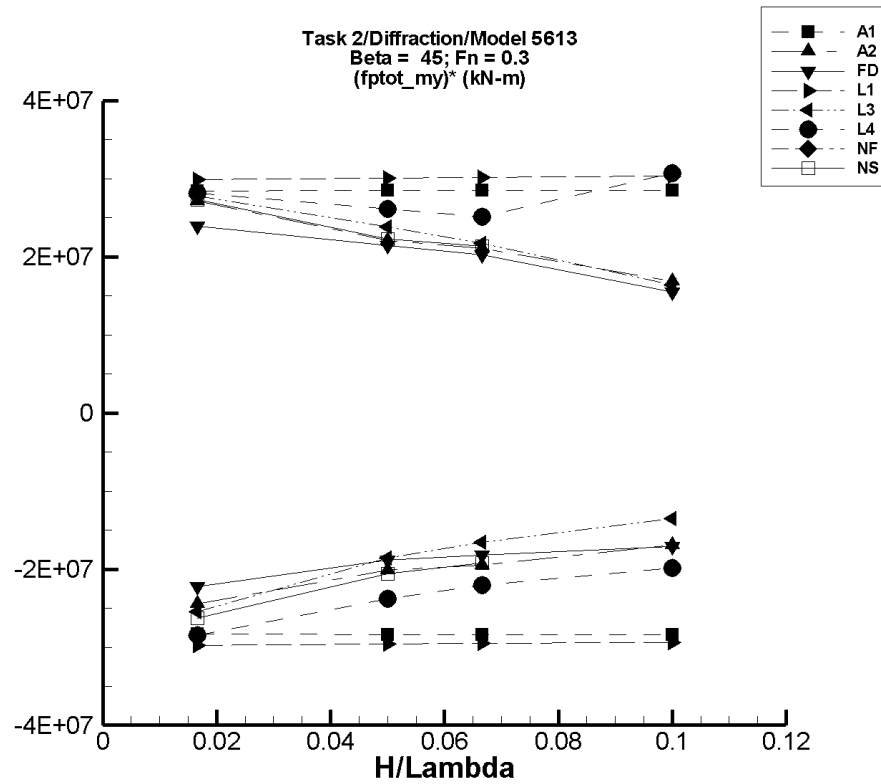


Figure Q-53. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-417. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.27E+03 | -4.81E+05 | 4.77E+05 | -4.70E+05 | 4.75E+05 | -2.83E+07 | 2.84E+07 |
| 1/20 | 3.82E+03 | -1.45E+06 | 1.43E+06 | -1.41E+06 | 1.43E+06 | -2.84E+07 | 2.85E+07 |
| 1/15 | 5.10E+03 | -1.93E+06 | 1.91E+06 | -1.89E+06 | 1.91E+06 | -2.84E+07 | 2.85E+07 |
| 1/10 | 7.66E+03 | -2.90E+06 | 2.87E+06 | -2.83E+06 | 2.86E+06 | -2.84E+07 | 2.85E+07 |

Table Q-418. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.50E+04 | -3.74E+05 | 4.88E+05 | -3.73E+05 | 4.87E+05 | -2.45E+07 | 2.71E+07 |
| 1/20 | 1.76E+05 | -8.66E+05 | 1.28E+06 | -8.28E+05 | 1.28E+06 | -2.01E+07 | 2.21E+07 |
| 1/15 | 2.76E+05 | -1.04E+06 | 1.72E+06 | -1.02E+06 | 1.68E+06 | -1.95E+07 | 2.11E+07 |
| 1/10 | 3.83E+05 | -1.32E+06 | 2.10E+06 | -1.31E+06 | 2.07E+06 | -1.69E+07 | 1.69E+07 |

Table Q-419. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.13E+04 | -3.50E+05 | 4.21E+05 | -3.49E+05 | 4.20E+05 | -2.22E+07 | 2.39E+07 |
| 1/20 | 1.41E+05 | -7.95E+05 | 1.22E+06 | -8.01E+05 | 1.22E+06 | -1.88E+07 | 2.15E+07 |
| 1/15 | 2.35E+05 | -9.79E+05 | 1.59E+06 | -9.77E+05 | 1.58E+06 | -1.82E+07 | 2.02E+07 |
| 1/10 | 3.99E+05 | -1.32E+06 | 1.95E+06 | -1.31E+06 | 1.95E+06 | -1.71E+07 | 1.55E+07 |

Table Q-420. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.25E+04 | -5.08E+05 | 4.86E+05 | -5.08E+05 | 4.86E+05 | -2.97E+07 | 2.99E+07 |
| 1/20 | -2.70E+04 | -1.51E+06 | 1.48E+06 | -1.51E+06 | 1.48E+06 | -2.96E+07 | 3.01E+07 |
| 1/15 | -3.98E+04 | -2.01E+06 | 1.97E+06 | -2.01E+06 | 1.97E+06 | -2.95E+07 | 3.02E+07 |
| 1/10 | -7.63E+04 | -3.02E+06 | 2.96E+06 | -3.02E+06 | 2.96E+06 | -2.94E+07 | 3.04E+07 |

Table Q-421. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.33E+03 | -4.25E+05 | 4.62E+05 | -4.25E+05 | 4.62E+05 | -2.54E+07 | 2.78E+07 |
| 1/20 | 8.44E+04 | -8.43E+05 | 1.28E+06 | -8.42E+05 | 1.28E+06 | -1.85E+07 | 2.38E+07 |
| 1/15 | 1.44E+05 | -9.58E+05 | 1.59E+06 | -9.58E+05 | 1.59E+06 | -1.65E+07 | 2.17E+07 |
| 1/10 | 2.20E+05 | -1.13E+06 | 1.86E+06 | -1.13E+06 | 1.86E+06 | -1.35E+07 | 1.64E+07 |

Table Q-422. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.00E+04 | -5.11E+05 | 4.40E+05 | -5.04E+05 | 4.40E+05 | -2.84E+07 | 2.82E+07 |
| 1/20 | 1.33E+04 | -1.25E+06 | 1.32E+06 | -1.18E+06 | 1.32E+06 | -2.38E+07 | 2.61E+07 |
| 1/15 | 7.80E+04 | -1.51E+06 | 1.76E+06 | -1.39E+06 | 1.75E+06 | -2.21E+07 | 2.51E+07 |
| 1/10 | 3.17E+05 | -1.89E+06 | 5.89E+06 | -1.67E+06 | 3.39E+06 | -1.99E+07 | 3.07E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-423. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-424. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.59E+04 | -4.26E+05 | 4.77E+05 | -4.22E+05 | 4.71E+05 | -2.63E+07 | 2.73E+07 |
| 1/20 | -6.89E+04 | -1.13E+06 | 1.07E+06 | -1.10E+06 | 1.04E+06 | -2.06E+07 | 2.22E+07 |
| 1/15 | -6.29E+04 | -1.40E+06 | 1.42E+06 | -1.35E+06 | 1.36E+06 | -1.93E+07 | 2.14E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

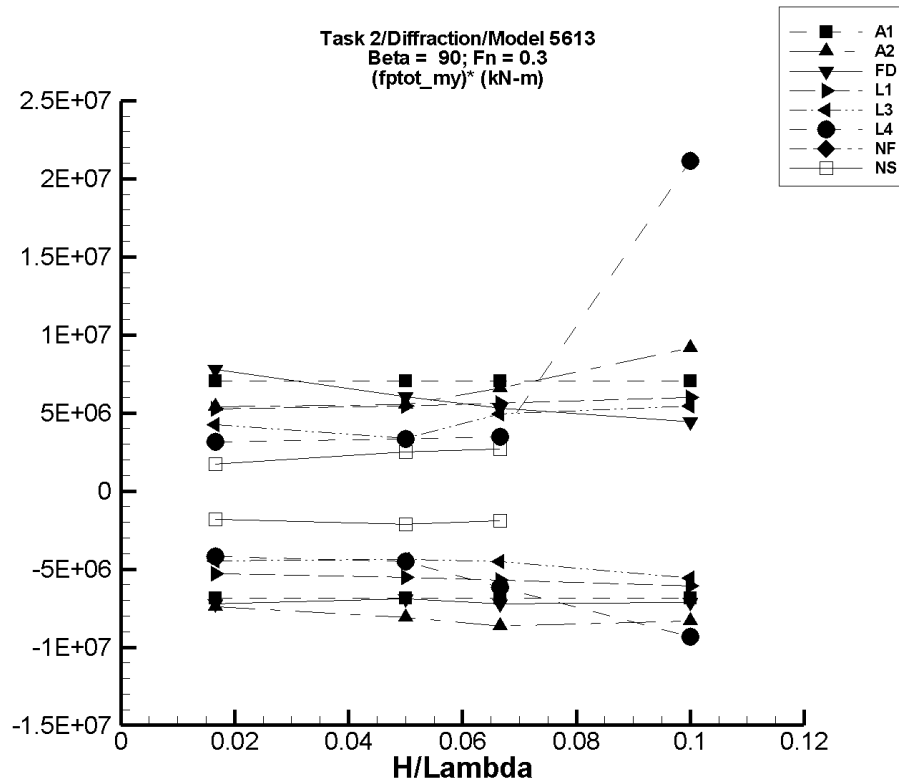


Figure Q-54. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-425. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 561. | -1.14E+05 | 1.19E+05 | -1.13E+05 | 1.18E+05 | -6.84E+06 | 7.04E+06 |
| 1/20 | 1.69E+03 | -3.44E+05 | 3.59E+05 | -3.41E+05 | 3.55E+05 | -6.85E+06 | 7.06E+06 |
| 1/15 | 2.25E+03 | -4.60E+05 | 4.79E+05 | -4.55E+05 | 4.74E+05 | -6.86E+06 | 7.07E+06 |
| 1/10 | 3.38E+03 | -6.90E+05 | 7.19E+05 | -6.83E+05 | 7.10E+05 | -6.86E+06 | 7.07E+06 |

Table Q-426. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.48E+04 | -9.30E+04 | 1.29E+05 | -8.88E+04 | 1.25E+05 | -7.41E+06 | 5.42E+06 |
| 1/20 | 1.76E+05 | -2.38E+05 | 5.07E+05 | -2.27E+05 | 4.54E+05 | -8.07E+06 | 5.55E+06 |
| 1/15 | 2.77E+05 | -3.19E+05 | 7.28E+05 | -2.99E+05 | 7.17E+05 | -8.63E+06 | 6.61E+06 |
| 1/10 | 3.82E+05 | -5.04E+05 | 1.32E+06 | -4.50E+05 | 1.30E+06 | -8.32E+06 | 9.17E+06 |

Table Q-427. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.17E+04 | -1.00E+05 | 1.53E+05 | -9.87E+04 | 1.51E+05 | -7.22E+06 | 7.78E+06 |
| 1/20 | 1.44E+05 | -2.13E+05 | 4.50E+05 | -2.02E+05 | 4.46E+05 | -6.92E+06 | 6.04E+06 |
| 1/15 | 2.39E+05 | -2.58E+05 | 5.98E+05 | -2.41E+05 | 5.92E+05 | -7.21E+06 | 5.30E+06 |
| 1/10 | 4.03E+05 | -3.38E+05 | 8.64E+05 | -3.10E+05 | 8.44E+05 | -7.13E+06 | 4.41E+06 |

Table Q-428. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.48E+04 | -1.03E+05 | 7.35E+04 | -1.03E+05 | 7.31E+04 | -5.29E+06 | 5.28E+06 |
| 1/20 | -4.76E+04 | -3.25E+05 | 2.27E+05 | -3.24E+05 | 2.26E+05 | -5.52E+06 | 5.46E+06 |
| 1/15 | -7.62E+04 | -4.57E+05 | 3.00E+05 | -4.55E+05 | 2.98E+05 | -5.69E+06 | 5.62E+06 |
| 1/10 | -1.58E+05 | -7.69E+05 | 4.45E+05 | -7.66E+05 | 4.41E+05 | -6.08E+06 | 5.99E+06 |

Table Q-429. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.71E+03 | -7.87E+04 | 6.72E+04 | -7.81E+04 | 6.68E+04 | -4.46E+06 | 4.23E+06 |
| 1/20 | 6.32E+04 | -1.57E+05 | 2.34E+05 | -1.55E+05 | 2.32E+05 | -4.37E+06 | 3.37E+06 |
| 1/15 | 1.07E+05 | -1.96E+05 | 4.40E+05 | -1.94E+05 | 4.37E+05 | -4.52E+06 | 4.95E+06 |
| 1/10 | 1.36E+05 | -4.29E+05 | 6.84E+05 | -4.23E+05 | 6.81E+05 | -5.59E+06 | 5.45E+06 |

Table Q-430. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.76E+04 | -1.12E+05 | 1.62E+04 | -1.08E+05 | 1.51E+04 | -4.21E+06 | 3.16E+06 |
| 1/20 | -3.83E+04 | -3.01E+05 | 1.35E+05 | -2.63E+05 | 1.29E+05 | -4.50E+06 | 3.35E+06 |
| 1/15 | -6.85E+03 | -4.89E+05 | 2.33E+05 | -4.18E+05 | 2.25E+05 | -6.17E+06 | 3.48E+06 |
| 1/10 | 1.69E+05 | -2.74E+06 | 6.03E+06 | -7.66E+05 | 2.28E+06 | -9.35E+06 | 2.11E+07 |

Table Q-431. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-432. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.26E+04 | -1.06E+05 | -3.85E+04 | -1.02E+05 | -4.39E+04 | -1.79E+06 | 1.72E+06 |
| 1/20 | -1.21E+05 | -2.96E+05 | 6.21E+04 | -2.28E+05 | 4.16E+03 | -2.13E+06 | 2.51E+06 |
| 1/15 | -1.81E+05 | -5.03E+05 | 3.98E+05 | -3.08E+05 | -2.70E+03 | -1.90E+06 | 2.68E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

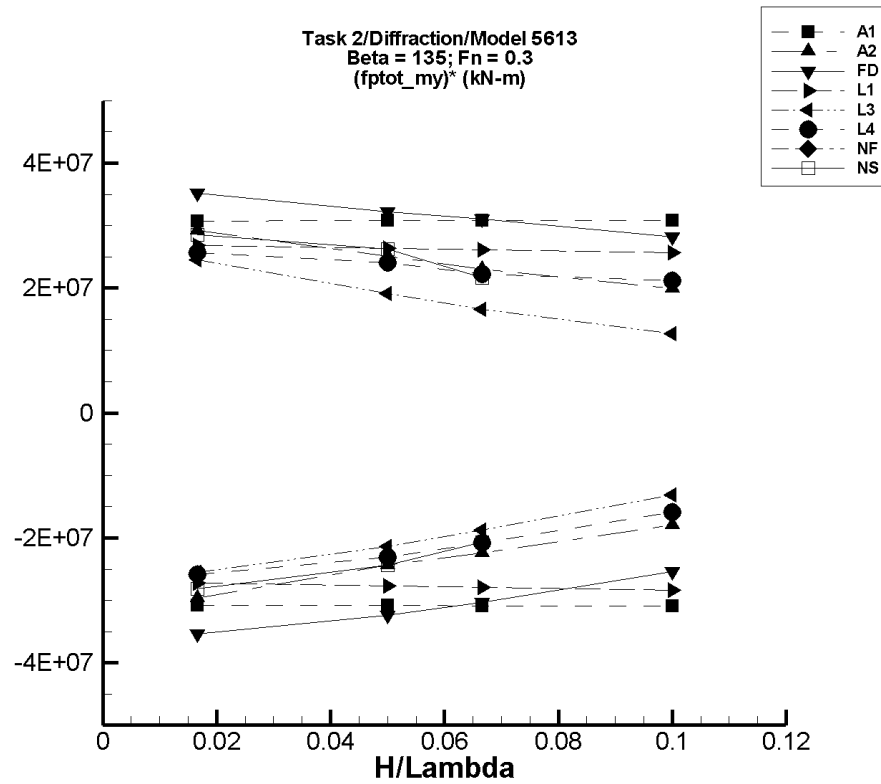


Figure Q-55. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-433. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 92.8 | -5.25E+05 | 5.25E+05 | -5.12E+05 | 5.12E+05 | -3.08E+07 | 3.07E+07 |
| 1/20 | 279. | -1.58E+06 | 1.58E+06 | -1.54E+06 | 1.54E+06 | -3.08E+07 | 3.08E+07 |
| 1/15 | 373. | -2.11E+06 | 2.11E+06 | -2.06E+06 | 2.06E+06 | -3.09E+07 | 3.08E+07 |
| 1/10 | 559. | -3.16E+06 | 3.16E+06 | -3.09E+06 | 3.08E+06 | -3.09E+07 | 3.08E+07 |

Table Q-434. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.41E+04 | -4.73E+05 | 5.34E+05 | -4.59E+05 | 5.21E+05 | -2.96E+07 | 2.92E+07 |
| 1/20 | 1.71E+05 | -1.10E+06 | 1.46E+06 | -1.04E+06 | 1.42E+06 | -2.43E+07 | 2.51E+07 |
| 1/15 | 2.69E+05 | -1.32E+06 | 1.85E+06 | -1.22E+06 | 1.81E+06 | -2.24E+07 | 2.30E+07 |
| 1/10 | 3.69E+05 | -1.46E+06 | 2.51E+06 | -1.43E+06 | 2.36E+06 | -1.80E+07 | 1.99E+07 |

Table Q-435. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.15E+04 | -5.84E+05 | 6.23E+05 | -5.68E+05 | 6.08E+05 | -3.54E+07 | 3.52E+07 |
| 1/20 | 1.41E+05 | -1.53E+06 | 1.80E+06 | -1.48E+06 | 1.75E+06 | -3.24E+07 | 3.22E+07 |
| 1/15 | 2.34E+05 | -1.84E+06 | 2.36E+06 | -1.79E+06 | 2.30E+06 | -3.04E+07 | 3.10E+07 |
| 1/10 | 3.99E+05 | -2.20E+06 | 3.31E+06 | -2.14E+06 | 3.21E+06 | -2.54E+07 | 2.82E+07 |

Table Q-436. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.39E+04 | -4.72E+05 | 4.37E+05 | -4.68E+05 | 4.33E+05 | -2.73E+07 | 2.68E+07 |
| 1/20 | -3.95E+04 | -1.44E+06 | 1.29E+06 | -1.43E+06 | 1.28E+06 | -2.77E+07 | 2.64E+07 |
| 1/15 | -6.19E+04 | -1.94E+06 | 1.70E+06 | -1.93E+06 | 1.68E+06 | -2.79E+07 | 2.62E+07 |
| 1/10 | -1.26E+05 | -2.99E+06 | 2.46E+06 | -2.97E+06 | 2.44E+06 | -2.84E+07 | 2.57E+07 |

Table Q-437. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.51E+03 | -4.32E+05 | 4.10E+05 | -4.28E+05 | 4.06E+05 | -2.55E+07 | 2.45E+07 |
| 1/20 | 7.24E+04 | -1.01E+06 | 1.03E+06 | -9.95E+05 | 1.03E+06 | -2.13E+07 | 1.91E+07 |
| 1/15 | 1.23E+05 | -1.15E+06 | 1.24E+06 | -1.12E+06 | 1.23E+06 | -1.87E+07 | 1.66E+07 |
| 1/10 | 1.72E+05 | -1.17E+06 | 1.45E+06 | -1.15E+06 | 1.44E+06 | -1.32E+07 | 1.27E+07 |

Table Q-438. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.70E+04 | -4.87E+05 | 3.84E+05 | -4.78E+05 | 3.80E+05 | -2.58E+07 | 2.56E+07 |
| 1/20 | -9.46E+04 | -1.25E+06 | 1.12E+06 | -1.25E+06 | 1.11E+06 | -2.31E+07 | 2.40E+07 |
| 1/15 | -8.64E+04 | -1.48E+06 | 1.41E+06 | -1.47E+06 | 1.39E+06 | -2.08E+07 | 2.22E+07 |
| 1/10 | 9.46E+03 | -1.59E+06 | 3.39E+06 | -1.58E+06 | 2.13E+06 | -1.58E+07 | 2.12E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-439. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-440. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.73E+04 | -5.46E+05 | 4.18E+05 | -5.37E+05 | 4.08E+05 | -2.82E+07 | 2.85E+07 |
| 1/20 | -9.80E+04 | -1.33E+06 | 1.28E+06 | -1.32E+06 | 1.21E+06 | -2.44E+07 | 2.62E+07 |
| 1/15 | -1.25E+05 | -1.54E+06 | 1.35E+06 | -1.50E+06 | 1.32E+06 | -2.07E+07 | 2.16E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

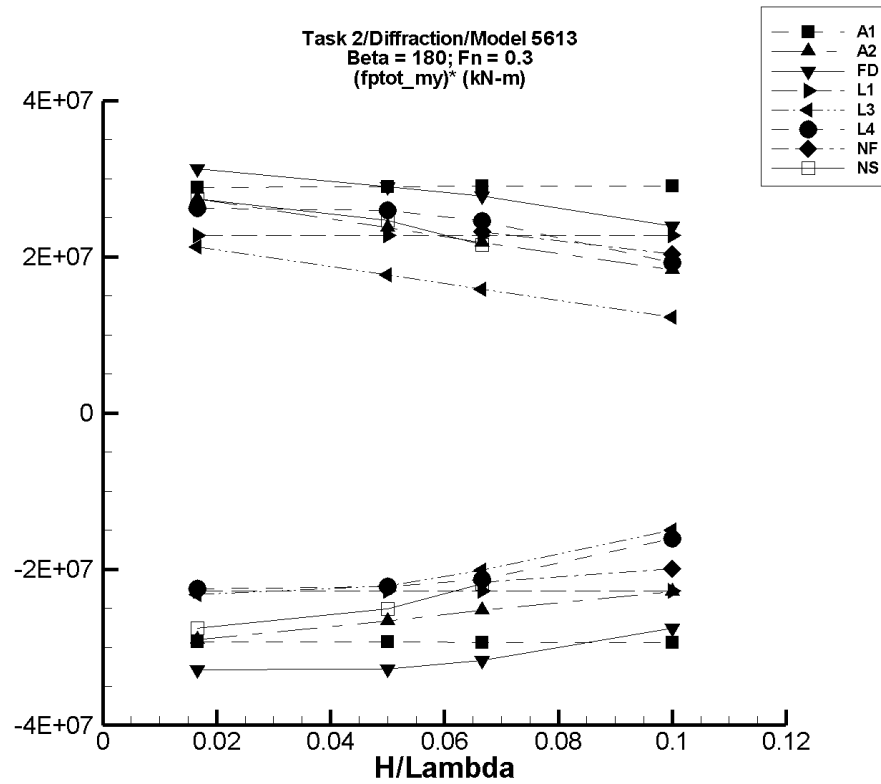


Figure Q-56. Minimum and maximum of filtered $(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-441. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.40E+03 | -5.01E+05 | 4.96E+05 | -4.89E+05 | 4.80E+05 | -2.93E+07 | 2.89E+07 |
| 1/20 | -4.21E+03 | -1.51E+06 | 1.49E+06 | -1.47E+06 | 1.45E+06 | -2.93E+07 | 2.90E+07 |
| 1/15 | -5.62E+03 | -2.01E+06 | 1.99E+06 | -1.96E+06 | 1.93E+06 | -2.94E+07 | 2.90E+07 |
| 1/10 | -8.43E+03 | -3.02E+06 | 2.99E+06 | -2.95E+06 | 2.89E+06 | -2.94E+07 | 2.90E+07 |

Table Q-442. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.25E+04 | -4.65E+05 | 5.09E+05 | -4.51E+05 | 4.90E+05 | -2.90E+07 | 2.74E+07 |
| 1/20 | 1.66E+05 | -1.25E+06 | 1.40E+06 | -1.17E+06 | 1.35E+06 | -2.66E+07 | 2.38E+07 |
| 1/15 | 2.63E+05 | -1.52E+06 | 1.77E+06 | -1.42E+06 | 1.72E+06 | -2.53E+07 | 2.18E+07 |
| 1/10 | 4.47E+05 | -1.99E+06 | 2.35E+06 | -1.84E+06 | 2.28E+06 | -2.28E+07 | 1.84E+07 |

Table Q-443. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.16E+04 | -5.49E+05 | 5.59E+05 | -5.26E+05 | 5.43E+05 | -3.29E+07 | 3.13E+07 |
| 1/20 | 1.44E+05 | -1.61E+06 | 1.64E+06 | -1.50E+06 | 1.59E+06 | -3.28E+07 | 2.90E+07 |
| 1/15 | 2.39E+05 | -1.99E+06 | 2.15E+06 | -1.87E+06 | 2.09E+06 | -3.17E+07 | 2.77E+07 |
| 1/10 | 4.04E+05 | -2.49E+06 | 2.86E+06 | -2.35E+06 | 2.80E+06 | -2.75E+07 | 2.39E+07 |

Table Q-444. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.15E+04 | -3.95E+05 | 3.71E+05 | -3.91E+05 | 3.67E+05 | -2.28E+07 | 2.27E+07 |
| 1/20 | -2.25E+04 | -1.17E+06 | 1.13E+06 | -1.16E+06 | 1.11E+06 | -2.28E+07 | 2.27E+07 |
| 1/15 | -3.26E+04 | -1.57E+06 | 1.50E+06 | -1.55E+06 | 1.48E+06 | -2.28E+07 | 2.27E+07 |
| 1/10 | -6.22E+04 | -2.36E+06 | 2.24E+06 | -2.34E+06 | 2.21E+06 | -2.28E+07 | 2.27E+07 |

Table Q-445. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -550. | -3.92E+05 | 3.59E+05 | -3.87E+05 | 3.55E+05 | -2.32E+07 | 2.13E+07 |
| 1/20 | 9.11E+04 | -1.05E+06 | 9.84E+05 | -1.02E+06 | 9.77E+05 | -2.22E+07 | 1.77E+07 |
| 1/15 | 1.54E+05 | -1.22E+06 | 1.22E+06 | -1.19E+06 | 1.21E+06 | -2.02E+07 | 1.58E+07 |
| 1/10 | 2.34E+05 | -1.29E+06 | 1.47E+06 | -1.27E+06 | 1.46E+06 | -1.50E+07 | 1.22E+07 |

Table Q-446. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.02E+04 | -4.35E+05 | 4.04E+05 | -4.26E+05 | 3.86E+05 | -2.25E+07 | 2.62E+07 |
| 1/20 | -1.02E+05 | -1.29E+06 | 1.36E+06 | -1.21E+06 | 1.19E+06 | -2.22E+07 | 2.59E+07 |
| 1/15 | -9.04E+04 | -1.56E+06 | 1.80E+06 | -1.51E+06 | 1.55E+06 | -2.13E+07 | 2.46E+07 |
| 1/10 | -6.15E+04 | -1.95E+06 | 2.12E+06 | -1.67E+06 | 1.87E+06 | -1.61E+07 | 1.93E+07 |

Table Q-447. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | -2.60E+04 | -1.24E+06 | 1.23E+06 | -1.18E+06 | 1.21E+06 | -2.30E+07 | 2.47E+07 |
| 1/15 | 2.57E+04 | -1.49E+06 | 1.62E+06 | -1.42E+06 | 1.57E+06 | -2.17E+07 | 2.32E+07 |
| 1/10 | 1.26E+05 | -1.90E+06 | 2.21E+06 | -1.87E+06 | 2.16E+06 | -2.00E+07 | 2.04E+07 |

Table Q-448. Minimum and Maximum of Variables M_y^{ptot} and $(M_y^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_y^{ptot} | | Filtered M_y^{ptot} | | Filtered $(M_y^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.14E+04 | -5.38E+05 | 3.96E+05 | -5.31E+05 | 3.86E+05 | -2.76E+07 | 2.74E+07 |
| 1/20 | -9.05E+04 | -1.38E+06 | 1.16E+06 | -1.34E+06 | 1.14E+06 | -2.51E+07 | 2.47E+07 |
| 1/15 | -1.30E+05 | -1.62E+06 | 1.33E+06 | -1.59E+06 | 1.31E+06 | -2.19E+07 | 2.16E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

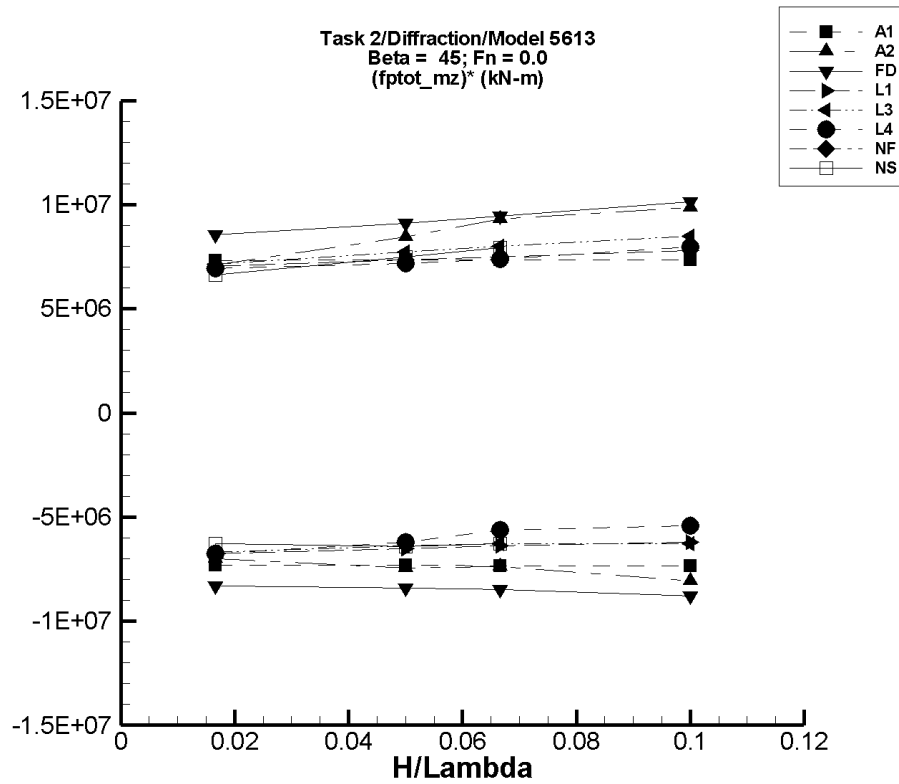


Figure Q-57. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-449. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -155. | -1.23E+05 | 1.23E+05 | -1.22E+05 | 1.22E+05 | -7.30E+06 | 7.33E+06 |
| 1/20 | -466. | -3.70E+05 | 3.71E+05 | -3.66E+05 | 3.67E+05 | -7.32E+06 | 7.35E+06 |
| 1/15 | -622. | -4.94E+05 | 4.95E+05 | -4.89E+05 | 4.90E+05 | -7.33E+06 | 7.36E+06 |
| 1/10 | -933. | -7.42E+05 | 7.43E+05 | -7.34E+05 | 7.35E+05 | -7.33E+06 | 7.36E+06 |

Table Q-450. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 401. | -1.18E+05 | 1.20E+05 | -1.16E+05 | 1.19E+05 | -7.01E+06 | 7.11E+06 |
| 1/20 | -253. | -3.84E+05 | 7.52E+05 | -3.72E+05 | 4.22E+05 | -7.44E+06 | 8.45E+06 |
| 1/15 | 743. | -4.94E+05 | 7.10E+05 | -4.91E+05 | 6.21E+05 | -7.37E+06 | 9.31E+06 |
| 1/10 | 2.13E+04 | -7.99E+05 | 1.45E+06 | -7.85E+05 | 1.01E+06 | -8.06E+06 | 9.86E+06 |

Table Q-451. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 77.2 | -1.39E+05 | 1.44E+05 | -1.38E+05 | 1.42E+05 | -8.29E+06 | 8.54E+06 |
| 1/20 | 580. | -4.24E+05 | 4.62E+05 | -4.19E+05 | 4.57E+05 | -8.40E+06 | 9.12E+06 |
| 1/15 | 1.18E+03 | -5.70E+05 | 6.39E+05 | -5.64E+05 | 6.31E+05 | -8.48E+06 | 9.45E+06 |
| 1/10 | 2.96E+03 | -8.87E+05 | 1.03E+06 | -8.76E+05 | 1.02E+06 | -8.79E+06 | 1.01E+07 |

Table Q-452. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.91E+03 | -1.16E+05 | 1.15E+05 | -1.16E+05 | 1.15E+05 | -6.77E+06 | 7.05E+06 |
| 1/20 | -2.66E+04 | -3.53E+05 | 3.42E+05 | -3.52E+05 | 3.41E+05 | -6.51E+06 | 7.34E+06 |
| 1/15 | -4.73E+04 | -4.75E+05 | 4.55E+05 | -4.74E+05 | 4.52E+05 | -6.39E+06 | 7.49E+06 |
| 1/10 | -1.07E+05 | -7.28E+05 | 6.77E+05 | -7.26E+05 | 6.73E+05 | -6.19E+06 | 7.80E+06 |

Table Q-453. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -2.89E+03 | -1.15E+05 | 1.17E+05 | -1.15E+05 | 1.16E+05 | -6.71E+06 | 7.14E+06 |
| 1/20 | -2.63E+04 | -3.47E+05 | 3.62E+05 | -3.46E+05 | 3.60E+05 | -6.39E+06 | 7.72E+06 |
| 1/15 | -4.69E+04 | -4.68E+05 | 4.89E+05 | -4.66E+05 | 4.86E+05 | -6.29E+06 | 8.00E+06 |
| 1/10 | -1.06E+05 | -7.38E+05 | 7.46E+05 | -7.35E+05 | 7.42E+05 | -6.28E+06 | 8.48E+06 |

Table Q-454. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -1.45E+03 | -1.16E+05 | 1.16E+05 | -1.14E+05 | 1.14E+05 | -6.74E+06 | 6.94E+06 |
| 1/20 | -1.22E+04 | -3.43E+05 | 3.70E+05 | -3.22E+05 | 3.47E+05 | -6.19E+06 | 7.18E+06 |
| 1/15 | -1.54E+04 | -4.20E+05 | 5.11E+05 | -3.89E+05 | 4.78E+05 | -5.61E+06 | 7.40E+06 |
| 1/10 | -5.50E+04 | -6.65E+05 | 8.10E+05 | -5.96E+05 | 7.44E+05 | -5.41E+06 | 7.99E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-455. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-456. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -764. | -1.07E+05 | 1.11E+05 | -1.06E+05 | 1.10E+05 | -6.29E+06 | 6.64E+06 |
| 1/20 | -4.44E+03 | -3.31E+05 | 3.79E+05 | -3.25E+05 | 3.70E+05 | -6.41E+06 | 7.49E+06 |
| 1/15 | -3.85E+03 | -4.65E+05 | 5.32E+05 | -4.23E+05 | 5.25E+05 | -6.28E+06 | 7.93E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

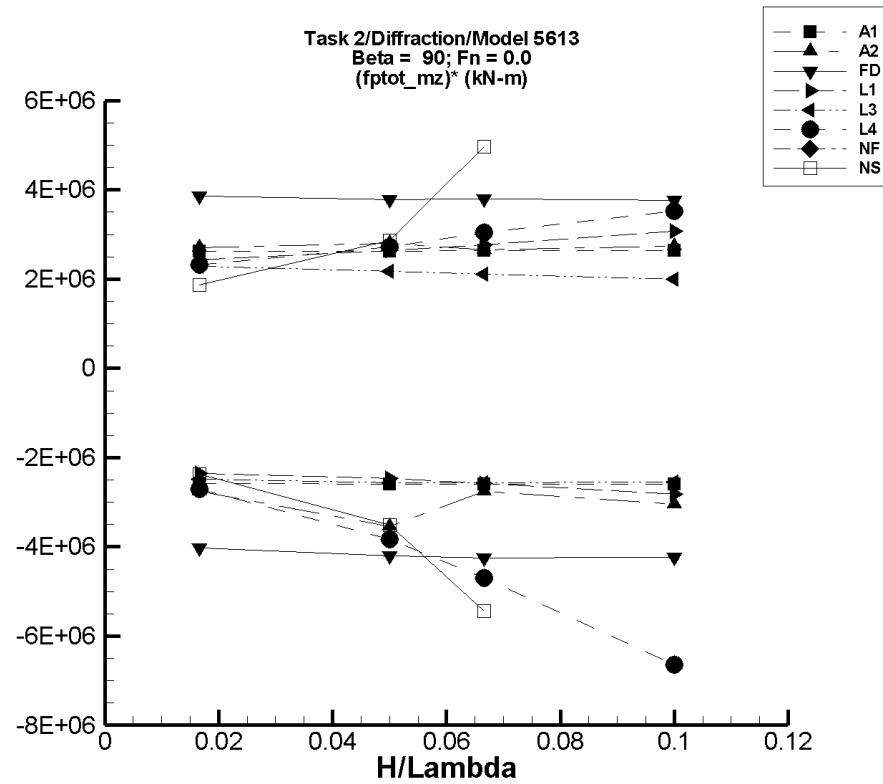


Figure Q-58. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-457. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -43.3 | -4.38E+04 | 4.38E+04 | -4.31E+04 | 4.37E+04 | -2.58E+06 | 2.62E+06 |
| 1/20 | -130. | -1.32E+05 | 1.32E+05 | -1.30E+05 | 1.31E+05 | -2.59E+06 | 2.63E+06 |
| 1/15 | -174. | -1.76E+05 | 1.76E+05 | -1.73E+05 | 1.75E+05 | -2.59E+06 | 2.64E+06 |
| 1/10 | -261. | -2.64E+05 | 2.64E+05 | -2.60E+05 | 2.63E+05 | -2.59E+06 | 2.64E+06 |

Table Q-458. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -70.8 | -4.77E+04 | 4.66E+04 | -4.61E+04 | 4.49E+04 | -2.76E+06 | 2.70E+06 |
| 1/20 | -4.65E+03 | -5.68E+05 | 1.50E+05 | -1.82E+05 | 1.35E+05 | -3.54E+06 | 2.80E+06 |
| 1/15 | 71.0 | -1.91E+05 | 2.47E+05 | -1.84E+05 | 1.77E+05 | -2.76E+06 | 2.65E+06 |
| 1/10 | -2.54E+03 | -5.94E+05 | 2.82E+05 | -3.06E+05 | 2.71E+05 | -3.04E+06 | 2.74E+06 |

Table Q-459. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.33 | -6.79E+04 | 6.42E+04 | -6.70E+04 | 6.43E+04 | -4.02E+06 | 3.86E+06 |
| 1/20 | 260. | -2.13E+05 | 1.92E+05 | -2.10E+05 | 1.89E+05 | -4.20E+06 | 3.78E+06 |
| 1/15 | 648. | -2.88E+05 | 2.58E+05 | -2.82E+05 | 2.53E+05 | -4.25E+06 | 3.79E+06 |
| 1/10 | 1.77E+03 | -4.35E+05 | 3.89E+05 | -4.22E+05 | 3.79E+05 | -4.24E+06 | 3.77E+06 |

Table Q-460. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.45E+03 | -4.09E+04 | 3.92E+04 | -4.08E+04 | 3.91E+04 | -2.36E+06 | 2.43E+06 |
| 1/20 | -1.29E+04 | -1.37E+05 | 1.20E+05 | -1.37E+05 | 1.19E+05 | -2.47E+06 | 2.64E+06 |
| 1/15 | -2.30E+04 | -1.96E+05 | 1.63E+05 | -1.95E+05 | 1.62E+05 | -2.58E+06 | 2.78E+06 |
| 1/10 | -5.17E+04 | -3.36E+05 | 2.57E+05 | -3.34E+05 | 2.55E+05 | -2.83E+06 | 3.07E+06 |

Table Q-461. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.45E+03 | -4.30E+04 | 3.66E+04 | -4.28E+04 | 3.67E+04 | -2.48E+06 | 2.29E+06 |
| 1/20 | -1.30E+04 | -1.42E+05 | 9.54E+04 | -1.41E+05 | 9.55E+04 | -2.57E+06 | 2.17E+06 |
| 1/15 | -2.31E+04 | -1.96E+05 | 1.18E+05 | -1.95E+05 | 1.18E+05 | -2.57E+06 | 2.11E+06 |
| 1/10 | -5.20E+04 | -3.10E+05 | 1.48E+05 | -3.07E+05 | 1.48E+05 | -2.55E+06 | 2.00E+06 |

Table Q-462. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.70E+03 | -5.49E+04 | 3.77E+04 | -4.78E+04 | 3.61E+04 | -2.71E+06 | 2.33E+06 |
| 1/20 | -1.01E+04 | -2.34E+05 | 1.62E+05 | -2.02E+05 | 1.26E+05 | -3.83E+06 | 2.73E+06 |
| 1/15 | -9.22E+03 | -3.51E+05 | 2.35E+05 | -3.23E+05 | 1.93E+05 | -4.71E+06 | 3.03E+06 |
| 1/10 | -8.97E+03 | -7.04E+05 | 5.13E+05 | -6.74E+05 | 3.44E+05 | -6.65E+06 | 3.53E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-463. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-464. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.06E+03 | -4.30E+04 | 3.19E+04 | -4.06E+04 | 3.00E+04 | -2.37E+06 | 1.86E+06 |
| 1/20 | -5.66E+03 | -1.99E+05 | 1.90E+05 | -1.81E+05 | 1.38E+05 | -3.51E+06 | 2.87E+06 |
| 1/15 | -1.54E+03 | -3.77E+05 | 3.58E+05 | -3.64E+05 | 3.30E+05 | -5.44E+06 | 4.97E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

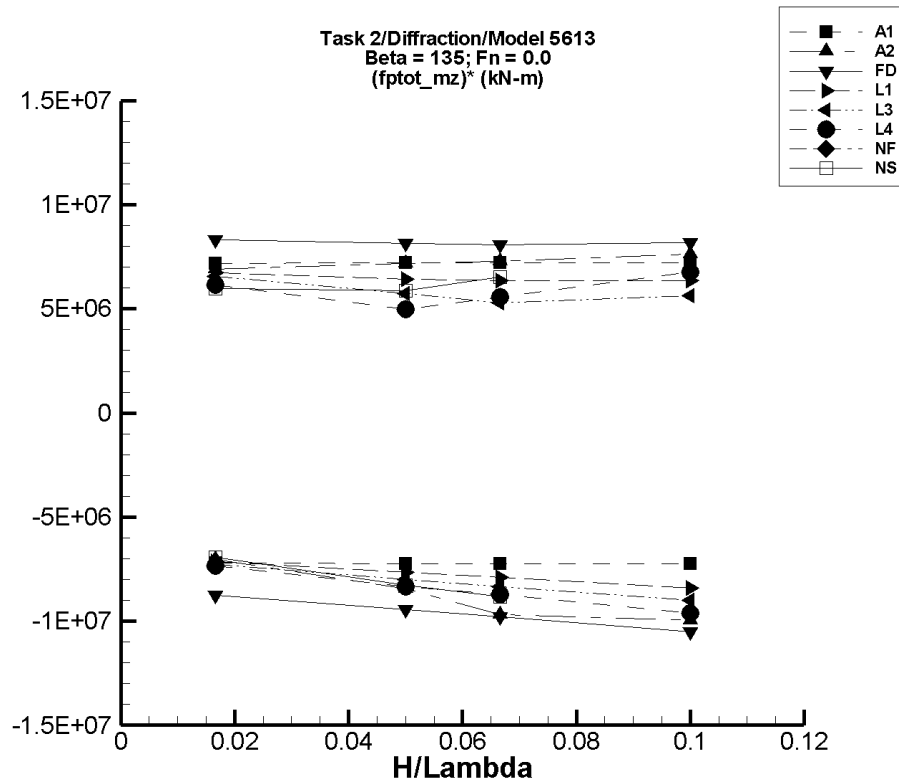


Figure Q-59. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-465. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 184. | -1.21E+05 | 1.21E+05 | -1.20E+05 | 1.20E+05 | -7.22E+06 | 7.19E+06 |
| 1/20 | 552. | -3.65E+05 | 3.65E+05 | -3.61E+05 | 3.61E+05 | -7.24E+06 | 7.20E+06 |
| 1/15 | 738. | -4.88E+05 | 4.87E+05 | -4.82E+05 | 4.82E+05 | -7.25E+06 | 7.21E+06 |
| 1/10 | 1.11E+03 | -7.32E+05 | 7.30E+05 | -7.24E+05 | 7.22E+05 | -7.25E+06 | 7.21E+06 |

Table Q-466. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | -204. | -1.20E+05 | 1.17E+05 | -1.18E+05 | 1.15E+05 | -7.04E+06 | 6.89E+06 |
| 1/20 | 1.22E+03 | -4.30E+05 | 3.71E+05 | -4.21E+05 | 3.61E+05 | -8.45E+06 | 7.19E+06 |
| 1/15 | -8.85E+03 | -1.01E+06 | 4.80E+05 | -6.55E+05 | 4.76E+05 | -9.70E+06 | 7.28E+06 |
| 1/10 | -4.33E+03 | -1.02E+06 | 7.74E+05 | -1.00E+06 | 7.58E+05 | -9.97E+06 | 7.62E+06 |

Table Q-467. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -47.5 | -1.48E+05 | 1.40E+05 | -1.46E+05 | 1.38E+05 | -8.76E+06 | 8.31E+06 |
| 1/20 | -206. | -4.77E+05 | 4.10E+05 | -4.72E+05 | 4.07E+05 | -9.43E+06 | 8.14E+06 |
| 1/15 | -518. | -6.62E+05 | 5.43E+05 | -6.54E+05 | 5.38E+05 | -9.80E+06 | 8.09E+06 |
| 1/10 | -1.55E+03 | -1.07E+06 | 8.23E+05 | -1.05E+06 | 8.15E+05 | -1.05E+07 | 8.17E+06 |

Table Q-468. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.67E+03 | -1.18E+05 | 1.14E+05 | -1.18E+05 | 1.14E+05 | -7.15E+06 | 6.73E+06 |
| 1/20 | 1.51E+04 | -3.69E+05 | 3.37E+05 | -3.67E+05 | 3.36E+05 | -7.64E+06 | 6.42E+06 |
| 1/15 | 2.68E+04 | -5.02E+05 | 4.51E+05 | -4.99E+05 | 4.50E+05 | -7.89E+06 | 6.34E+06 |
| 1/10 | 6.04E+04 | -7.87E+05 | 6.97E+05 | -7.82E+05 | 6.95E+05 | -8.42E+06 | 6.34E+06 |

Table Q-469. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------|------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.65E+03 | -1.20E+05 | 1.11E+05 | -1.20E+05 | 1.11E+05 | -7.28E+06 | 6.56E+06 |
| 1/20 | 1.49E+04 | -3.87E+05 | 3.02E+05 | -3.85E+05 | 3.01E+05 | -8.01E+06 | 5.72E+06 |
| 1/15 | 2.65E+04 | -5.34E+05 | 3.79E+05 | -5.31E+05 | 3.79E+05 | -8.36E+06 | 5.29E+06 |
| 1/10 | 6.00E+04 | -8.46E+05 | 6.28E+05 | -8.40E+05 | 6.24E+05 | -9.00E+06 | 5.64E+06 |

Table Q-470. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------|------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 954. | -1.27E+05 | 1.07E+05 | -1.22E+05 | 1.03E+05 | -7.35E+06 | 6.13E+06 |
| 1/20 | 6.10E+03 | -4.48E+05 | 2.74E+05 | -4.10E+05 | 2.56E+05 | -8.33E+06 | 5.00E+06 |
| 1/15 | 1.16E+04 | -6.24E+05 | 6.23E+05 | -5.69E+05 | 3.83E+05 | -8.71E+06 | 5.57E+06 |
| 1/10 | 5.39E+04 | -9.52E+05 | 7.59E+05 | -9.06E+05 | 7.31E+05 | -9.60E+06 | 6.77E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-471. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-472. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -611. | -1.18E+05 | 9.98E+04 | -1.16E+05 | 9.88E+04 | -6.92E+06 | 5.97E+06 |
| 1/20 | -3.08E+03 | -4.20E+05 | 3.14E+05 | -4.16E+05 | 2.91E+05 | -8.27E+06 | 5.89E+06 |
| 1/15 | -626. | -5.95E+05 | 4.65E+05 | -5.88E+05 | 4.34E+05 | -8.81E+06 | 6.53E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

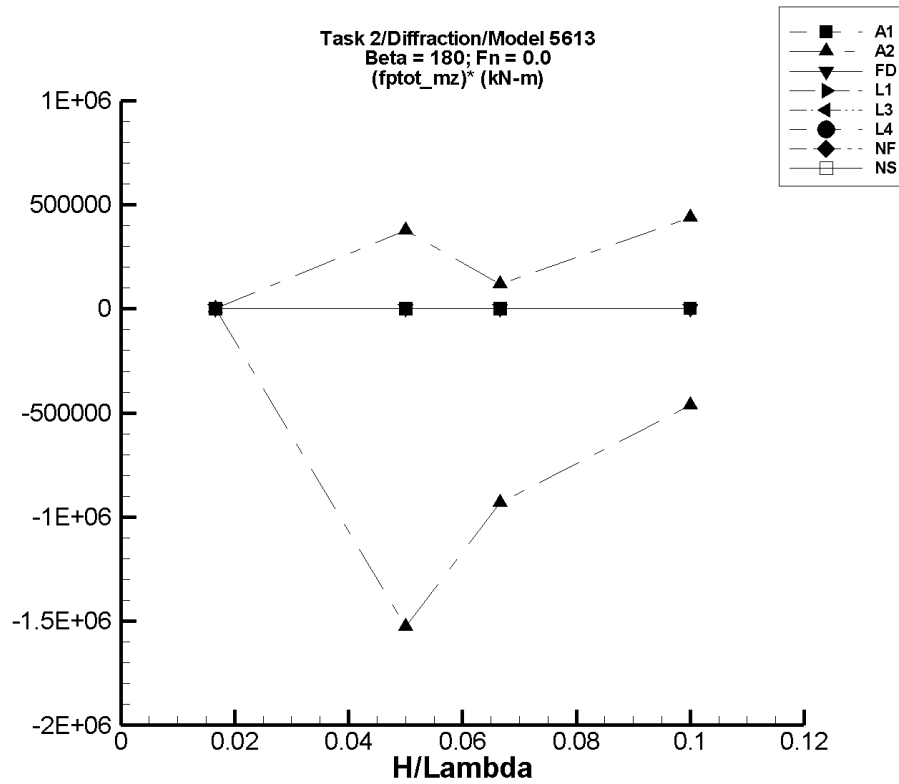


Figure Q-60. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-473. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.07E-03 | -1.26 | 1.31 | -1.25 | 1.30 | -75.3 | 77.7 |
| 1/20 | 3.22E-03 | -3.80 | 3.94 | -3.77 | 3.90 | -75.5 | 77.9 |
| 1/15 | 4.30E-03 | -5.08 | 5.25 | -5.03 | 5.21 | -75.6 | 78.0 |
| 1/10 | 6.45E-03 | -7.62 | 7.88 | -7.55 | 7.81 | -75.6 | 78.0 |

Table Q-474. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.93E-04 | -1.20 | 1.24 | -1.19 | 1.23 | -71.3 | 73.7 |
| 1/20 | -2.39E+03 | -5.89E+05 | 1.23E+05 | -7.88E+04 | 1.65E+04 | -1.53E+06 | 3.77E+05 |
| 1/15 | -2.46E+03 | -4.85E+05 | 4.97 | -6.46E+04 | 5.53E+03 | -9.32E+05 | 1.20E+05 |
| 1/10 | 727. | -3.34E+05 | 3.30E+05 | -4.55E+04 | 4.47E+04 | -4.62E+05 | 4.40E+05 |

Table Q-475. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.63E-05 | -1.47E-02 | 2.52E-02 | -9.35E-03 | 1.07E-02 | -0.555 | 0.648 |
| 1/20 | -1.35E-04 | -4.23E-02 | 7.31E-02 | -2.55E-02 | 3.24E-02 | -0.508 | 0.651 |
| 1/15 | -3.25E-04 | -5.30E-02 | 9.85E-02 | -3.23E-02 | 4.26E-02 | -0.479 | 0.644 |
| 1/10 | -1.27E-04 | -7.24E-02 | 0.142 | -5.00E-02 | 6.34E-02 | -0.499 | 0.635 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-476. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-477. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-478. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–479. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–480. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.26E-03 | -0.110 | 0.107 | -3.94E-02 | 4.07E-02 | -2.62 | 2.19 |
| 1/20 | -9.69E-03 | -0.362 | 0.551 | -0.223 | 0.119 | -4.26 | 2.57 |
| 1/15 | -2.98E-03 | -3.01 | 2.90 | -0.256 | 0.200 | -3.80 | 3.05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

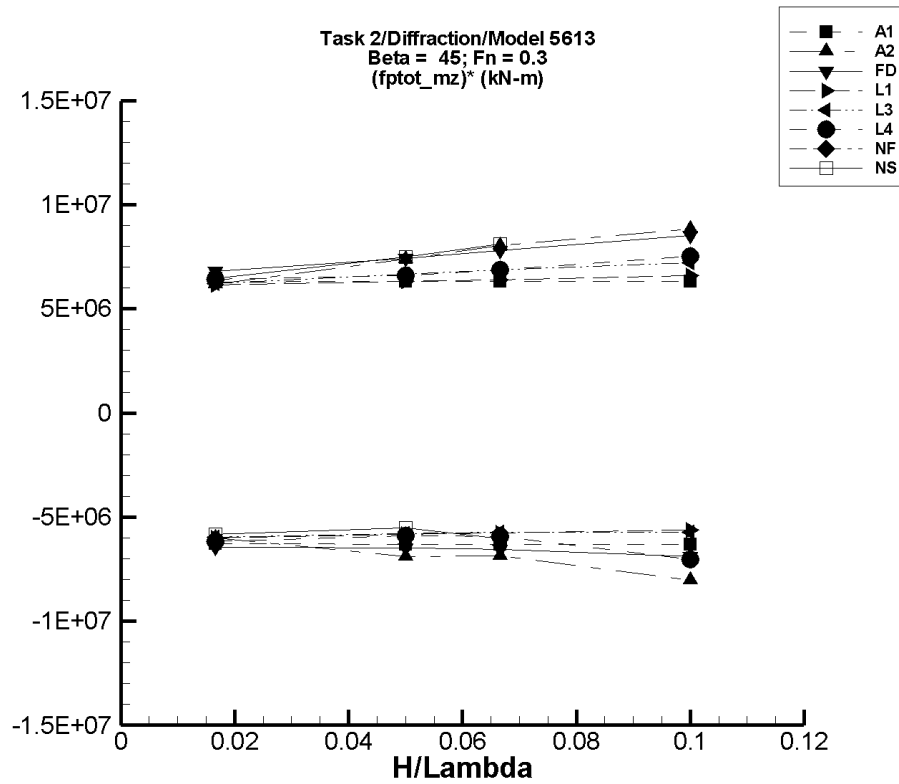


Figure Q-61. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-481. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 21.7 | -1.05E+05 | 1.05E+05 | -1.05E+05 | 1.05E+05 | -6.29E+06 | 6.30E+06 |
| 1/20 | 65.3 | -3.16E+05 | 3.17E+05 | -3.15E+05 | 3.16E+05 | -6.30E+06 | 6.32E+06 |
| 1/15 | 87.2 | -4.22E+05 | 4.23E+05 | -4.21E+05 | 4.22E+05 | -6.31E+06 | 6.32E+06 |
| 1/10 | 131. | -6.33E+05 | 6.34E+05 | -6.31E+05 | 6.33E+05 | -6.31E+06 | 6.32E+06 |

Table Q-482. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{ptot}})^*$ Max. (kN-m) |
| 1/60 | 404. | -1.03E+05 | 1.04E+05 | -9.97E+04 | 1.03E+05 | -6.01E+06 | 6.18E+06 |
| 1/20 | 2.42E+03 | -3.46E+05 | 6.73E+05 | -3.43E+05 | 3.72E+05 | -6.91E+06 | 7.39E+06 |
| 1/15 | 1.07E+03 | -4.70E+05 | 5.42E+05 | -4.55E+05 | 5.37E+05 | -6.85E+06 | 8.03E+06 |
| 1/10 | 6.88E+03 | -1.07E+06 | 1.57E+06 | -7.97E+05 | 8.92E+05 | -8.04E+06 | 8.85E+06 |

Table Q-483. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 34.8 | -1.08E+05 | 1.14E+05 | -1.07E+05 | 1.13E+05 | -6.44E+06 | 6.80E+06 |
| 1/20 | 212. | -3.25E+05 | 3.73E+05 | -3.25E+05 | 3.72E+05 | -6.50E+06 | 7.43E+06 |
| 1/15 | 353. | -4.38E+05 | 5.22E+05 | -4.37E+05 | 5.20E+05 | -6.57E+06 | 7.80E+06 |
| 1/10 | 926. | -6.90E+05 | 8.56E+05 | -6.88E+05 | 8.54E+05 | -6.89E+06 | 8.53E+06 |

Table Q-484. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -22.4 | -9.99E+04 | 1.03E+05 | -9.98E+04 | 1.02E+05 | -5.99E+06 | 6.15E+06 |
| 1/20 | -256. | -2.92E+05 | 3.16E+05 | -2.92E+05 | 3.16E+05 | -5.84E+06 | 6.32E+06 |
| 1/15 | -469. | -3.85E+05 | 4.27E+05 | -3.85E+05 | 4.27E+05 | -5.76E+06 | 6.41E+06 |
| 1/10 | -1.09E+03 | -5.65E+05 | 6.58E+05 | -5.64E+05 | 6.57E+05 | -5.63E+06 | 6.58E+06 |

Table Q-485. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -30.3 | -9.94E+04 | 1.03E+05 | -9.93E+04 | 1.03E+05 | -5.96E+06 | 6.21E+06 |
| 1/20 | -359. | -2.90E+05 | 3.32E+05 | -2.90E+05 | 3.33E+05 | -5.79E+06 | 6.66E+06 |
| 1/15 | -604. | -3.83E+05 | 4.56E+05 | -3.83E+05 | 4.58E+05 | -5.73E+06 | 6.87E+06 |
| 1/10 | -1.25E+03 | -5.76E+05 | 7.20E+05 | -5.75E+05 | 7.22E+05 | -5.74E+06 | 7.23E+06 |

Table Q-486. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.48E+03 | -9.91E+04 | 1.30E+05 | -9.64E+04 | 1.13E+05 | -6.17E+06 | 6.41E+06 |
| 1/20 | 5.58E+04 | -2.42E+05 | 4.64E+05 | -2.39E+05 | 3.85E+05 | -5.89E+06 | 6.58E+06 |
| 1/15 | 9.33E+04 | -3.13E+05 | 6.64E+05 | -3.02E+05 | 5.52E+05 | -5.93E+06 | 6.89E+06 |
| 1/10 | 1.70E+05 | -8.31E+05 | 1.00E+06 | -5.34E+05 | 9.21E+05 | -7.04E+06 | 7.51E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-487. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-488. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.20E+03 | -1.03E+05 | 1.02E+05 | -1.02E+05 | 1.02E+05 | -5.83E+06 | 6.45E+06 |
| 1/20 | -5.29E+04 | -3.38E+05 | 3.20E+05 | -3.29E+05 | 3.21E+05 | -5.52E+06 | 7.48E+06 |
| 1/15 | -9.40E+04 | -5.06E+05 | 4.46E+05 | -4.97E+05 | 4.47E+05 | -6.04E+06 | 8.12E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

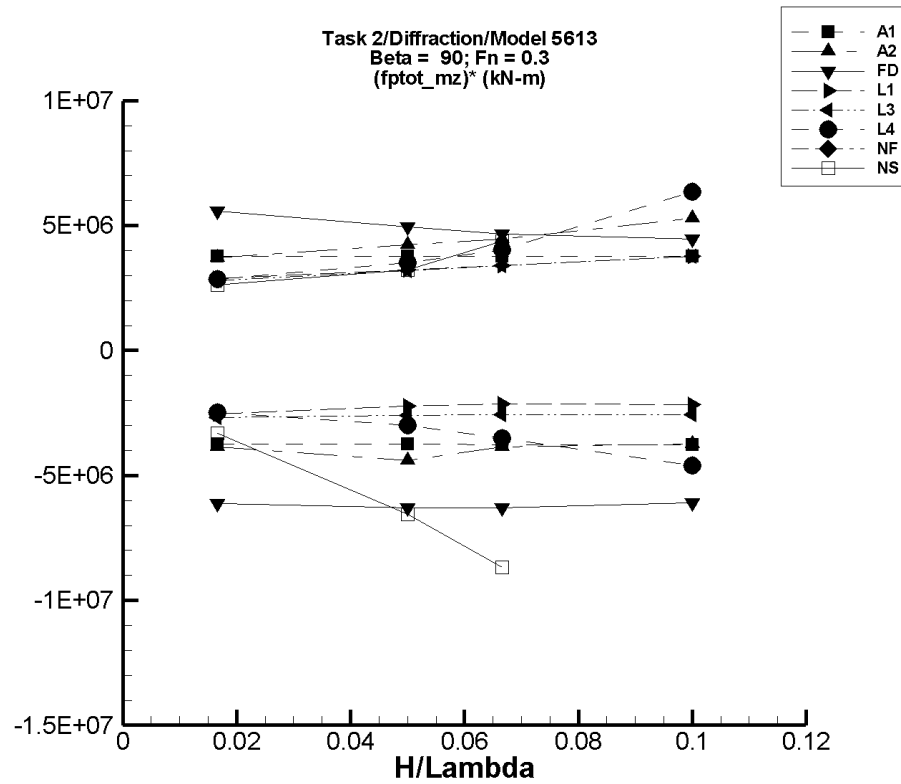


Figure Q-62. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-489. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -60.3 | -6.31E+04 | 6.32E+04 | -6.25E+04 | 6.26E+04 | -3.75E+06 | 3.76E+06 |
| 1/20 | -181. | -1.90E+05 | 1.90E+05 | -1.88E+05 | 1.88E+05 | -3.76E+06 | 3.77E+06 |
| 1/15 | -242. | -2.54E+05 | 2.54E+05 | -2.51E+05 | 2.51E+05 | -3.76E+06 | 3.77E+06 |
| 1/10 | -363. | -3.80E+05 | 3.81E+05 | -3.77E+05 | 3.77E+05 | -3.76E+06 | 3.77E+06 |

Table Q-490. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -87.8 | -6.44E+04 | 6.25E+04 | -6.42E+04 | 6.19E+04 | -3.84E+06 | 3.72E+06 |
| 1/20 | -4.70E+03 | -6.13E+05 | 2.17E+05 | -2.25E+05 | 2.07E+05 | -4.40E+06 | 4.24E+06 |
| 1/15 | -118. | -2.60E+05 | 3.10E+05 | -2.57E+05 | 2.97E+05 | -3.85E+06 | 4.46E+06 |
| 1/10 | -2.64E+03 | -5.31E+05 | 5.54E+05 | -3.78E+05 | 5.26E+05 | -3.76E+06 | 5.29E+06 |

Table Q-491. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 17.1 | -1.03E+05 | 9.37E+04 | -1.02E+05 | 9.29E+04 | -6.12E+06 | 5.57E+06 |
| 1/20 | 315. | -3.19E+05 | 2.49E+05 | -3.15E+05 | 2.48E+05 | -6.31E+06 | 4.94E+06 |
| 1/15 | 721. | -4.23E+05 | 3.13E+05 | -4.18E+05 | 3.12E+05 | -6.28E+06 | 4.67E+06 |
| 1/10 | 1.88E+03 | -6.11E+05 | 4.53E+05 | -6.08E+05 | 4.49E+05 | -6.09E+06 | 4.47E+06 |

Table Q-492. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.61E+03 | -4.06E+04 | 4.97E+04 | -4.05E+04 | 4.95E+04 | -2.52E+06 | 2.87E+06 |
| 1/20 | 1.46E+04 | -9.66E+04 | 1.77E+05 | -9.64E+04 | 1.76E+05 | -2.22E+06 | 3.23E+06 |
| 1/15 | 2.61E+04 | -1.17E+05 | 2.54E+05 | -1.17E+05 | 2.53E+05 | -2.14E+06 | 3.40E+06 |
| 1/10 | 5.87E+04 | -1.60E+05 | 4.37E+05 | -1.59E+05 | 4.35E+05 | -2.18E+06 | 3.76E+06 |

Table Q–493. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.61E+03 | -4.35E+04 | 4.85E+04 | -4.33E+04 | 4.83E+04 | -2.69E+06 | 2.80E+06 |
| 1/20 | 1.46E+04 | -1.16E+05 | 1.75E+05 | -1.16E+05 | 1.74E+05 | -2.61E+06 | 3.20E+06 |
| 1/15 | 2.59E+04 | -1.46E+05 | 2.54E+05 | -1.45E+05 | 2.53E+05 | -2.57E+06 | 3.40E+06 |
| 1/10 | 5.84E+04 | -2.02E+05 | 4.37E+05 | -1.99E+05 | 4.34E+05 | -2.57E+06 | 3.76E+06 |

Table Q–494. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.71E+03 | -3.78E+04 | 5.72E+04 | -3.26E+04 | 5.62E+04 | -2.48E+06 | 2.85E+06 |
| 1/20 | 7.19E+04 | -1.02E+05 | 2.63E+05 | -7.81E+04 | 2.47E+05 | -3.00E+06 | 3.51E+06 |
| 1/15 | 1.16E+05 | -1.52E+05 | 3.96E+05 | -1.17E+05 | 3.86E+05 | -3.50E+06 | 4.04E+06 |
| 1/10 | 2.15E+05 | -2.98E+05 | 1.14E+06 | -2.46E+05 | 8.50E+05 | -4.61E+06 | 6.35E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-495. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-496. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.24E+04 | -7.20E+04 | 3.18E+04 | -6.76E+04 | 3.12E+04 | -3.31E+06 | 2.61E+06 |
| 1/20 | -1.05E+05 | -4.98E+05 | 7.74E+04 | -4.32E+05 | 5.65E+04 | -6.55E+06 | 3.22E+06 |
| 1/15 | -1.56E+05 | -7.61E+05 | 1.76E+05 | -7.35E+05 | 1.34E+05 | -8.67E+06 | 4.36E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

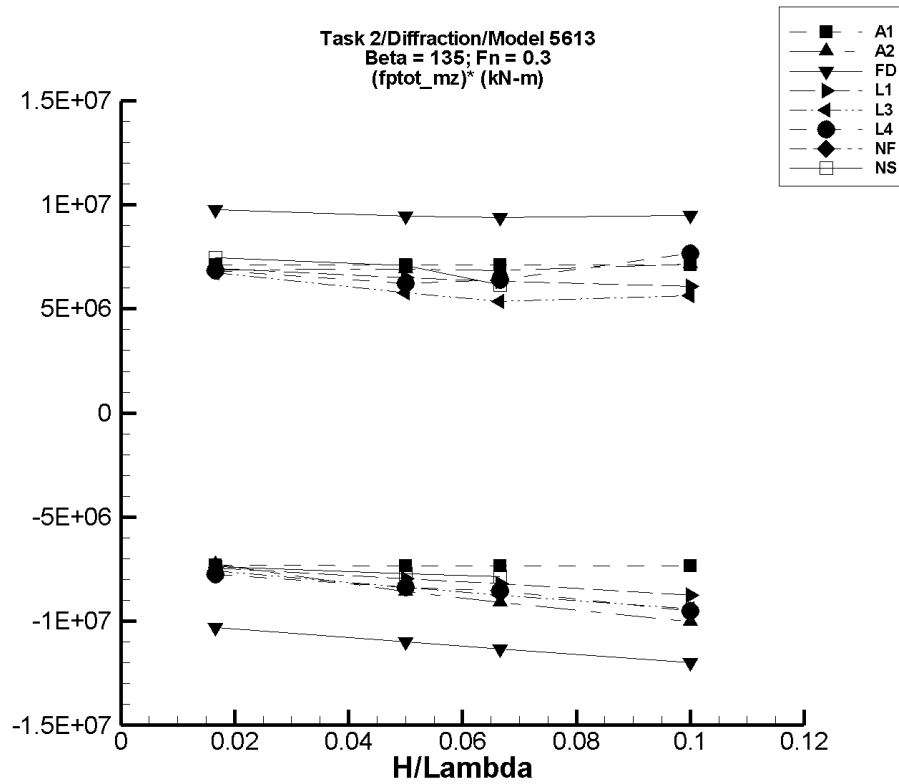


Figure Q-63. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-497. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 85.0 | -1.22E+05 | 1.21E+05 | -1.22E+05 | 1.18E+05 | -7.32E+06 | 7.10E+06 |
| 1/20 | 256. | -3.68E+05 | 3.64E+05 | -3.67E+05 | 3.56E+05 | -7.34E+06 | 7.12E+06 |
| 1/15 | 341. | -4.91E+05 | 4.86E+05 | -4.90E+05 | 4.75E+05 | -7.35E+06 | 7.12E+06 |
| 1/10 | 512. | -7.37E+05 | 7.30E+05 | -7.35E+05 | 7.13E+05 | -7.35E+06 | 7.12E+06 |

Table Q-498. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 217. | -1.28E+05 | 1.19E+05 | -1.21E+05 | 1.15E+05 | -7.29E+06 | 6.87E+06 |
| 1/20 | -930. | -4.92E+05 | 3.71E+05 | -4.30E+05 | 3.45E+05 | -8.58E+06 | 6.92E+06 |
| 1/15 | -763. | -6.15E+05 | 4.81E+05 | -6.08E+05 | 4.56E+05 | -9.11E+06 | 6.85E+06 |
| 1/10 | -4.29E+03 | -1.03E+06 | 7.46E+05 | -1.01E+06 | 7.09E+05 | -1.00E+07 | 7.13E+06 |

Table Q-499. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -14.2 | -1.76E+05 | 1.66E+05 | -1.72E+05 | 1.63E+05 | -1.03E+07 | 9.77E+06 |
| 1/20 | -334. | -5.65E+05 | 4.80E+05 | -5.50E+05 | 4.73E+05 | -1.10E+07 | 9.46E+06 |
| 1/15 | -696. | -7.77E+05 | 6.31E+05 | -7.56E+05 | 6.25E+05 | -1.13E+07 | 9.39E+06 |
| 1/10 | -1.61E+03 | -1.23E+06 | 9.68E+05 | -1.20E+06 | 9.47E+05 | -1.20E+07 | 9.49E+06 |

Table Q-500. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------|------------------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.66E+03 | -1.24E+05 | 1.18E+05 | -1.22E+05 | 1.17E+05 | -7.44E+06 | 6.94E+06 |
| 1/20 | 1.49E+04 | -3.87E+05 | 3.42E+05 | -3.83E+05 | 3.40E+05 | -7.96E+06 | 6.49E+06 |
| 1/15 | 2.64E+04 | -5.28E+05 | 4.50E+05 | -5.22E+05 | 4.47E+05 | -8.22E+06 | 6.31E+06 |
| 1/10 | 5.94E+04 | -8.28E+05 | 6.72E+05 | -8.16E+05 | 6.68E+05 | -8.75E+06 | 6.08E+06 |

Table Q-501. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------|------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.67E+03 | -1.26E+05 | 1.15E+05 | -1.24E+05 | 1.14E+05 | -7.57E+06 | 6.72E+06 |
| 1/20 | 1.49E+04 | -4.09E+05 | 3.04E+05 | -4.04E+05 | 3.03E+05 | -8.37E+06 | 5.77E+06 |
| 1/15 | 2.65E+04 | -5.64E+05 | 3.86E+05 | -5.57E+05 | 3.83E+05 | -8.75E+06 | 5.34E+06 |
| 1/10 | 5.95E+04 | -8.96E+05 | 6.32E+05 | -8.82E+05 | 6.23E+05 | -9.42E+06 | 5.63E+06 |

Table Q-502. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|--------------------------------------------------|-----------------------|------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.63E+03 | -1.31E+05 | 1.30E+05 | -1.22E+05 | 1.22E+05 | -7.76E+06 | 6.84E+06 |
| 1/20 | 6.17E+04 | -3.71E+05 | 5.08E+05 | -3.57E+05 | 3.72E+05 | -8.37E+06 | 6.21E+06 |
| 1/15 | 9.95E+04 | -4.94E+05 | 9.27E+05 | -4.70E+05 | 5.26E+05 | -8.54E+06 | 6.40E+06 |
| 1/10 | 1.98E+05 | -8.05E+05 | 9.99E+05 | -7.52E+05 | 9.64E+05 | -9.50E+06 | 7.66E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-503. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-504. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.86E+03 | -1.36E+05 | 1.16E+05 | -1.33E+05 | 1.14E+05 | -7.39E+06 | 7.45E+06 |
| 1/20 | -7.88E+04 | -4.76E+05 | 3.13E+05 | -4.65E+05 | 2.76E+05 | -7.72E+06 | 7.10E+06 |
| 1/15 | -1.22E+05 | -6.57E+05 | 3.01E+05 | -6.46E+05 | 2.89E+05 | -7.87E+06 | 6.15E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

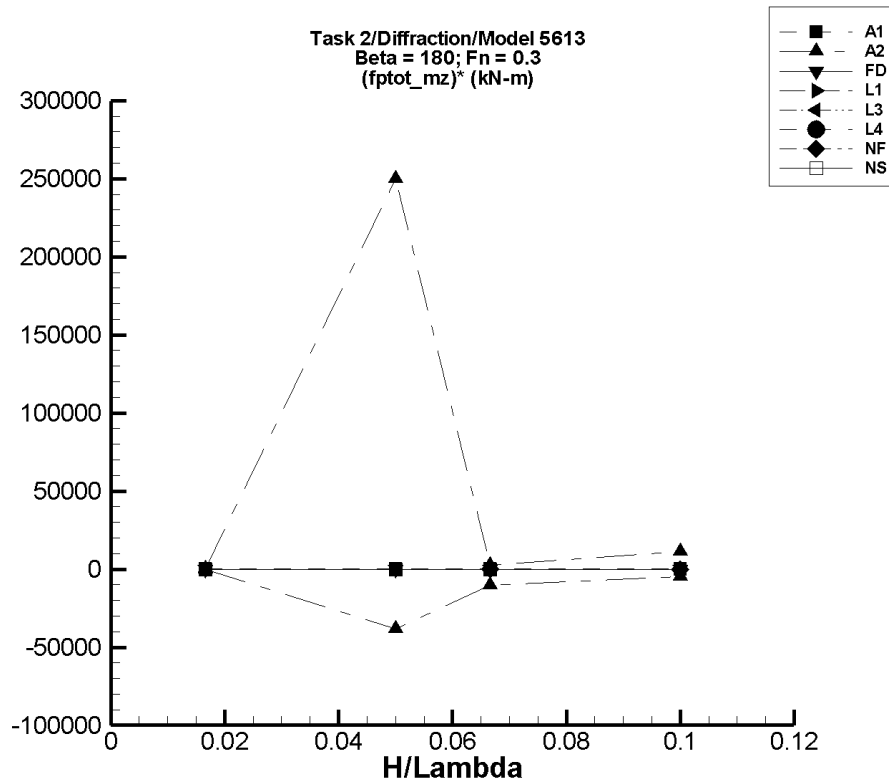


Figure Q-64. Minimum and maximum of filtered $(M_z^{\text{ptot}} - \langle M_z^{\text{ptot}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-505. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.19E-03 | -2.36 | 2.65 | -2.29 | 2.32 | -137. | 139. |
| 1/20 | -3.59E-03 | -7.10 | 7.99 | -6.88 | 6.98 | -138. | 140. |
| 1/15 | -4.79E-03 | -9.48 | 10.7 | -9.19 | 9.31 | -138. | 140. |
| 1/10 | -7.18E-03 | -14.2 | 16.0 | -13.8 | 14.0 | -138. | 140. |

Table Q-506. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.42E-03 | -2.31 | 2.61 | -2.24 | 2.26 | -134. | 136. |
| 1/20 | 776. | -6.95 | 9.94E+04 | -1.13E+03 | 1.33E+04 | -3.82E+04 | 2.50E+05 |
| 1/15 | -108. | -5.96E+03 | 18.8 | -793. | 76.2 | -1.03E+04 | 2.77E+03 |
| 1/10 | 216. | -1.13E+03 | 9.92E+03 | -251. | 1.34E+03 | -4.67E+03 | 1.12E+04 |

Table Q-507. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------|--------------------------------|----------------|------------------------------|----------------|----------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ | Unfiltered M_z^{ptot} | | Filtered M_z^{ptot} | | Filtered $(M_z^{\text{ptot}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.03E-04 | -0.101 | 0.109 | -6.47E-02 | 8.61E-02 | -3.93 | 5.12 |
| 1/20 | -2.14E-03 | -0.295 | 0.324 | -0.186 | 0.271 | -3.67 | 5.45 |
| 1/15 | -2.73E-03 | -0.397 | 0.436 | -0.248 | 0.360 | -3.67 | 5.43 |
| 1/10 | 1.49E-02 | -0.590 | 0.731 | -0.410 | 0.538 | -4.25 | 5.23 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–508. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|---|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} Min. Max. (kN-m) (kN-m) | | Filtered M_z^{ptot} Min. Max. (kN-m) (kN-m) | | Filtered $(M_z^{\text{ptot}})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–509. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|---|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} Min. Max. (kN-m) (kN-m) | | Filtered M_z^{ptot} Min. Max. (kN-m) (kN-m) | | Filtered $(M_z^{\text{ptot}})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–510. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|---|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered M_z^{ptot} Min. Max. (kN-m) (kN-m) | | Filtered M_z^{ptot} Min. Max. (kN-m) (kN-m) | | Filtered $(M_z^{\text{ptot}})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–511. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | -8.69E-11 | -1.20E-09 | 6.91E-10 | -4.38E-10 | 4.86E-10 | -7.02E-09 | 1.15E-08 |
| 1/15 | 4.07E-10 | -6.39E-10 | 1.89E-09 | -2.52E-10 | 1.31E-09 | -9.90E-09 | 1.35E-08 |
| 1/10 | -4.41E-10 | -2.97E-09 | 1.84E-09 | -1.79E-09 | 1.62E-09 | -1.35E-08 | 2.07E-08 |

Table Q–512. Minimum and Maximum of Variables M_z^{ptot} and $(M_z^{\text{ptot}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-------------------------------------------------------|------------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{ptot}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{ptot} Max. (kN-m) | Filtered $(M_z^{\text{ptot}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.36E-03 | -0.389 | 0.439 | -4.90E-02 | 3.84E-02 | -2.74 | 2.51 |
| 1/20 | -1.51E-02 | -0.565 | 0.792 | -8.48E-02 | 8.38E-02 | -1.39 | 1.98 |
| 1/15 | -2.49E-03 | -1.30 | 0.810 | -0.149 | 0.153 | -2.20 | 2.34 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

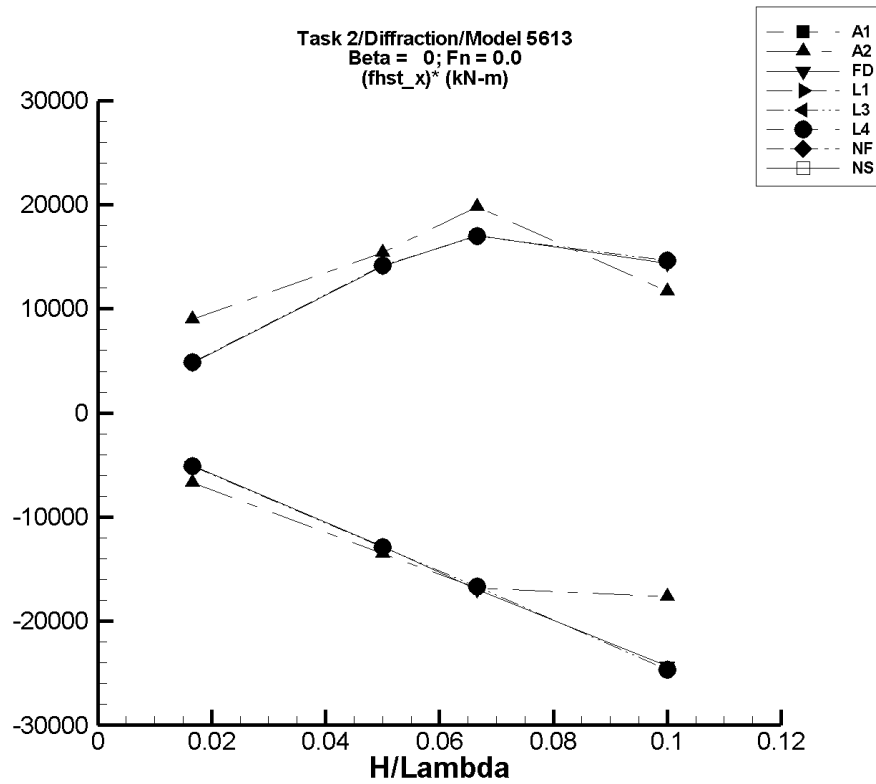


Figure Q-65. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-513. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-514. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.3 | -96.7 | 180. | -89.9 | 171. | -6.67E+03 | 9.00E+03 |
| 1/20 | 28.5 | -681. | 864. | -646. | 800. | -1.35E+04 | 1.54E+04 |
| 1/15 | 1.74 | -1.18E+03 | 1.42E+03 | -1.12E+03 | 1.32E+03 | -1.68E+04 | 1.98E+04 |
| 1/10 | 117. | -1.80E+03 | 1.47E+03 | -1.65E+03 | 1.29E+03 | -1.77E+04 | 1.17E+04 |

Table Q-515. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -11.3 | -99.1 | 72.1 | -95.7 | 69.2 | -5.06E+03 | 4.83E+03 |
| 1/20 | -19.5 | -688. | 703. | -661. | 685. | -1.28E+04 | 1.41E+04 |
| 1/15 | -13.3 | -1.19E+03 | 1.15E+03 | -1.15E+03 | 1.12E+03 | -1.70E+04 | 1.70E+04 |
| 1/10 | -11.4 | -2.62E+03 | 1.52E+03 | -2.44E+03 | 1.42E+03 | -2.43E+04 | 1.44E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-516. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-517. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -40.1 | -127. | 42.2 | -126. | 40.9 | -5.14E+03 | 4.86E+03 |
| 1/20 | -47.2 | -700. | 664. | -691. | 660. | -1.29E+04 | 1.41E+04 |
| 1/15 | -42.4 | -1.17E+03 | 1.10E+03 | -1.16E+03 | 1.09E+03 | -1.67E+04 | 1.70E+04 |
| 1/10 | -30.3 | -2.56E+03 | 1.46E+03 | -2.50E+03 | 1.43E+03 | -2.47E+04 | 1.46E+04 |

Table Q-518. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -40.1 | -127. | 42.2 | -126. | 40.9 | -5.14E+03 | 4.86E+03 |
| 1/20 | -47.2 | -700. | 664. | -691. | 660. | -1.29E+04 | 1.41E+04 |
| 1/15 | -42.4 | -1.17E+03 | 1.10E+03 | -1.16E+03 | 1.09E+03 | -1.67E+04 | 1.70E+04 |
| 1/10 | -30.3 | -2.56E+03 | 1.46E+03 | -2.50E+03 | 1.43E+03 | -2.47E+04 | 1.46E+04 |

Table Q-519. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-520. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

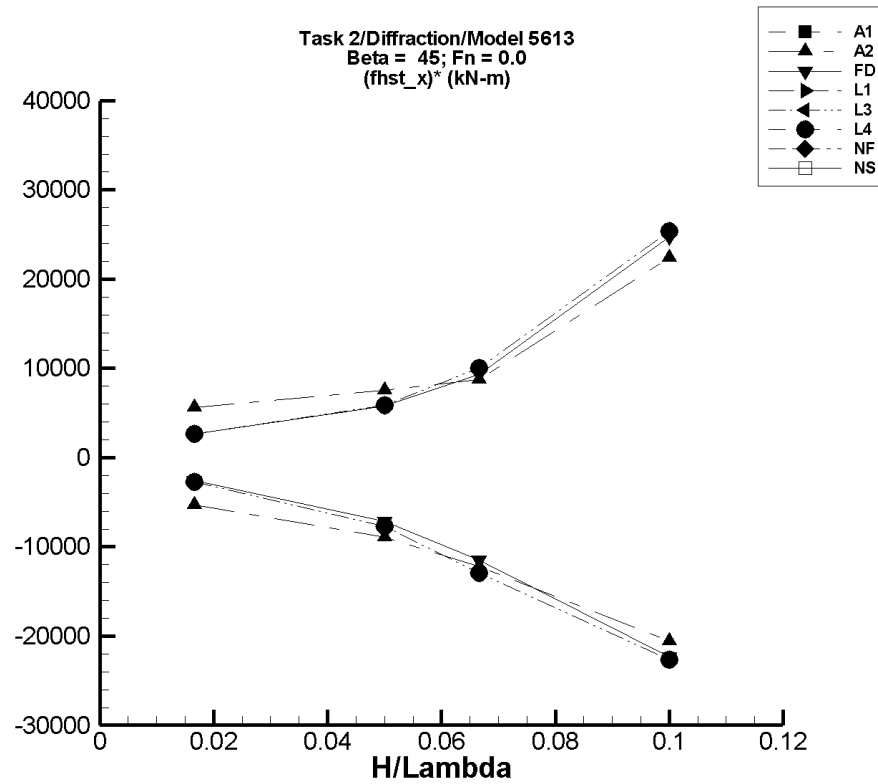


Figure Q-66. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-521. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-522. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 20.9 | -71.8 | 117. | -67.8 | 114. | -5.32E+03 | 5.61E+03 |
| 1/20 | 2.32 | -1.58E+03 | 707. | -444. | 379. | -8.92E+03 | 7.54E+03 |
| 1/15 | 5.85 | -1.04E+03 | 678. | -807. | 591. | -1.22E+04 | 8.77E+03 |
| 1/10 | 46.1 | -2.29E+03 | 2.34E+03 | -2.01E+03 | 2.29E+03 | -2.06E+04 | 2.24E+04 |

Table Q–523. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -9.90 | -55.2 | 35.5 | -53.4 | 33.8 | -2.61E+03 | 2.62E+03 |
| 1/20 | 1.90E-02 | -410. | 304. | -358. | 288. | -7.17E+03 | 5.77E+03 |
| 1/15 | 4.88 | -978. | 658. | -759. | 626. | -1.15E+04 | 9.32E+03 |
| 1/10 | -10.8 | -2.35E+03 | 2.54E+03 | -2.24E+03 | 2.46E+03 | -2.23E+04 | 2.48E+04 |

Table Q–524. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-525. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -38.9 | -85.4 | 5.43 | -84.7 | 4.80 | -2.75E+03 | 2.62E+03 |
| 1/20 | -34.7 | -438. | 264. | -421. | 259. | -7.73E+03 | 5.87E+03 |
| 1/15 | -43.5 | -1.02E+03 | 643. | -908. | 626. | -1.30E+04 | 1.00E+04 |
| 1/10 | -48.0 | -2.36E+03 | 2.53E+03 | -2.31E+03 | 2.49E+03 | -2.26E+04 | 2.54E+04 |

Table Q-526. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -38.9 | -85.4 | 5.43 | -84.7 | 4.80 | -2.75E+03 | 2.62E+03 |
| 1/20 | -34.7 | -438. | 264. | -421. | 259. | -7.73E+03 | 5.87E+03 |
| 1/15 | -43.5 | -1.02E+03 | 643. | -908. | 626. | -1.30E+04 | 1.00E+04 |
| 1/10 | -48.0 | -2.36E+03 | 2.53E+03 | -2.31E+03 | 2.49E+03 | -2.26E+04 | 2.54E+04 |

Table Q-527. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-528. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

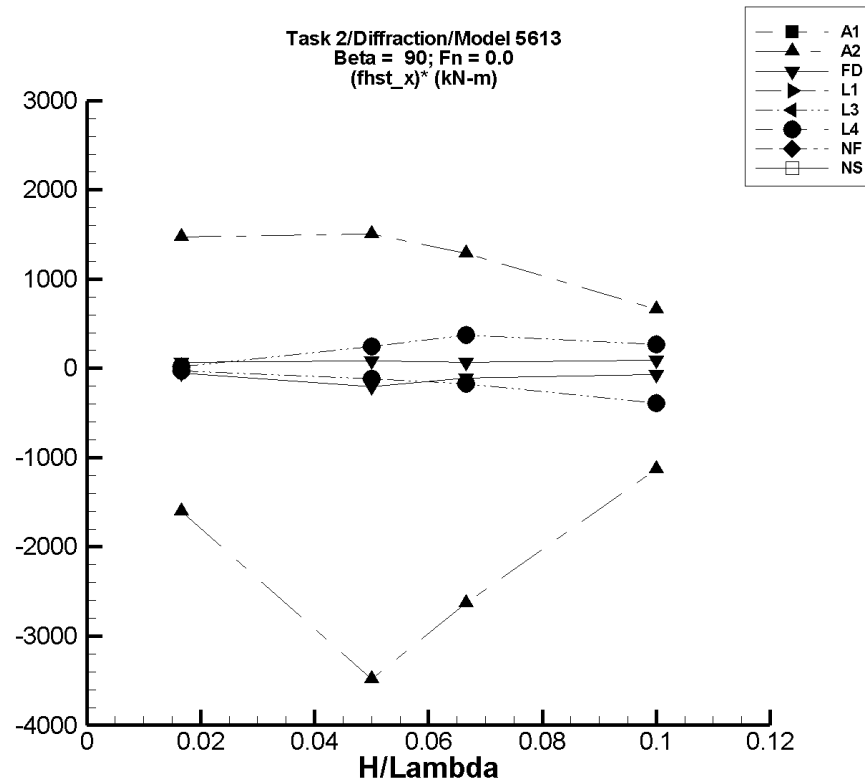


Figure Q-67. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-529. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-530. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.3 | -13.1 | 45.7 | -5.42 | 45.8 | -1.60E+03 | 1.47E+03 |
| 1/20 | 0.196 | -1.47E+03 | 81.4 | -174. | 75.5 | -3.48E+03 | 1.51E+03 |
| 1/15 | -20.8 | -531. | 72.9 | -196. | 65.3 | -2.63E+03 | 1.29E+03 |
| 1/10 | -18.1 | -366. | 99.1 | -131. | 48.1 | -1.13E+03 | 662. |

Table Q-531. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.4 | -11.3 | -9.04 | -11.2 | -9.26 | -52.5 | 65.5 |
| 1/20 | -12.7 | -23.5 | -7.90 | -22.9 | -8.53 | -204. | 82.8 |
| 1/15 | -12.9 | -22.6 | -3.13 | -20.3 | -8.54 | -112. | 64.7 |
| 1/10 | -8.39 | -27.6 | 5.17 | -15.5 | 0.708 | -70.9 | 91.0 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-532. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-533. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.3 | -39.8 | -38.8 | -39.8 | -39.0 | -25.0 | 20.1 |
| 1/20 | -36.7 | -42.9 | -24.2 | -42.6 | -24.3 | -119. | 247. |
| 1/15 | -33.3 | -46.0 | -7.96 | -45.0 | -8.28 | -176. | 375. |
| 1/10 | -26.6 | -70.0 | 16.0 | -65.7 | -2.86E-02 | -391. | 266. |

Table Q-534. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.3 | -39.8 | -38.8 | -39.8 | -39.0 | -25.0 | 20.1 |
| 1/20 | -36.7 | -42.9 | -24.2 | -42.6 | -24.3 | -119. | 247. |
| 1/15 | -33.3 | -46.0 | -7.96 | -45.0 | -8.28 | -176. | 375. |
| 1/10 | -26.6 | -70.0 | 16.0 | -65.7 | -2.86E-02 | -391. | 266. |

Table Q-535. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-536. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

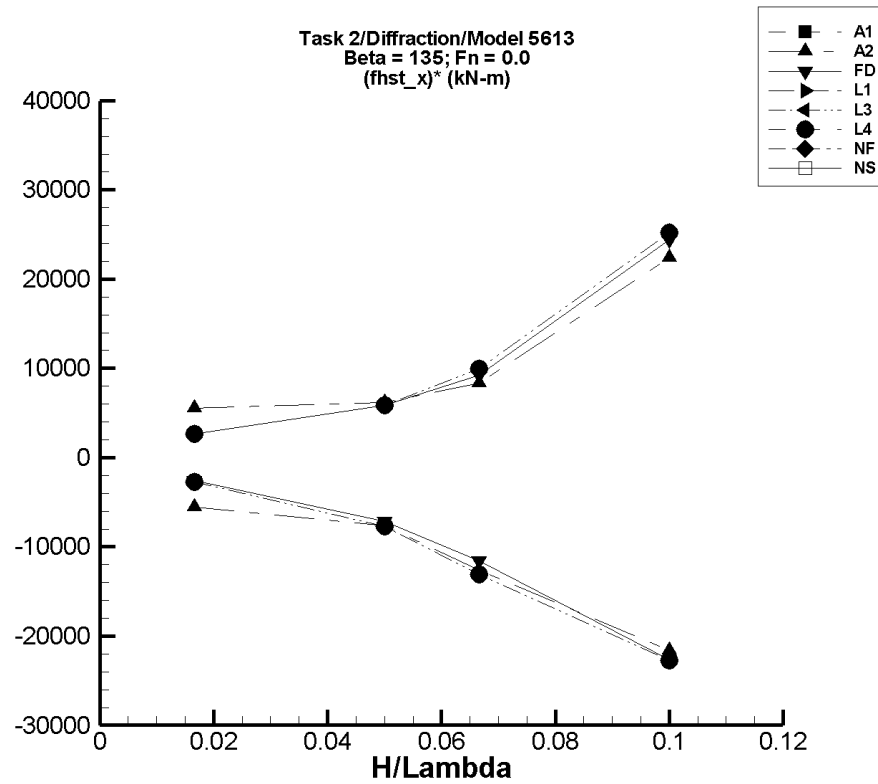


Figure Q-68. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-537. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-538. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.6 | -71.8 | 117. | -71.4 | 114. | -5.58E+03 | 5.56E+03 |
| 1/20 | 18.3 | -414. | 355. | -363. | 326. | -7.62E+03 | 6.16E+03 |
| 1/15 | 14.7 | -1.07E+03 | 755. | -826. | 574. | -1.26E+04 | 8.38E+03 |
| 1/10 | 42.4 | -2.32E+03 | 2.34E+03 | -2.12E+03 | 2.28E+03 | -2.16E+04 | 2.24E+04 |

Table Q-539. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.5 | -55.3 | 35.6 | -53.5 | 33.6 | -2.58E+03 | 2.65E+03 |
| 1/20 | -2.72 | -411. | 304. | -359. | 288. | -7.12E+03 | 5.82E+03 |
| 1/15 | 11.9 | -971. | 658. | -760. | 626. | -1.16E+04 | 9.22E+03 |
| 1/10 | 21.8 | -2.35E+03 | 2.55E+03 | -2.24E+03 | 2.46E+03 | -2.27E+04 | 2.44E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-540. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-541. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.0 | -85.4 | 5.43 | -84.7 | 4.79 | -2.74E+03 | 2.63E+03 |
| 1/20 | -35.7 | -438. | 264. | -421. | 259. | -7.71E+03 | 5.89E+03 |
| 1/15 | -36.6 | -1.02E+03 | 643. | -907. | 627. | -1.31E+04 | 9.95E+03 |
| 1/10 | -35.4 | -2.36E+03 | 2.53E+03 | -2.31E+03 | 2.49E+03 | -2.28E+04 | 2.52E+04 |

Table Q-542. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.0 | -85.4 | 5.43 | -84.7 | 4.79 | -2.74E+03 | 2.63E+03 |
| 1/20 | -35.7 | -438. | 264. | -421. | 259. | -7.71E+03 | 5.89E+03 |
| 1/15 | -36.6 | -1.02E+03 | 643. | -907. | 627. | -1.31E+04 | 9.95E+03 |
| 1/10 | -35.4 | -2.36E+03 | 2.53E+03 | -2.31E+03 | 2.49E+03 | -2.28E+04 | 2.52E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-543. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-544. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

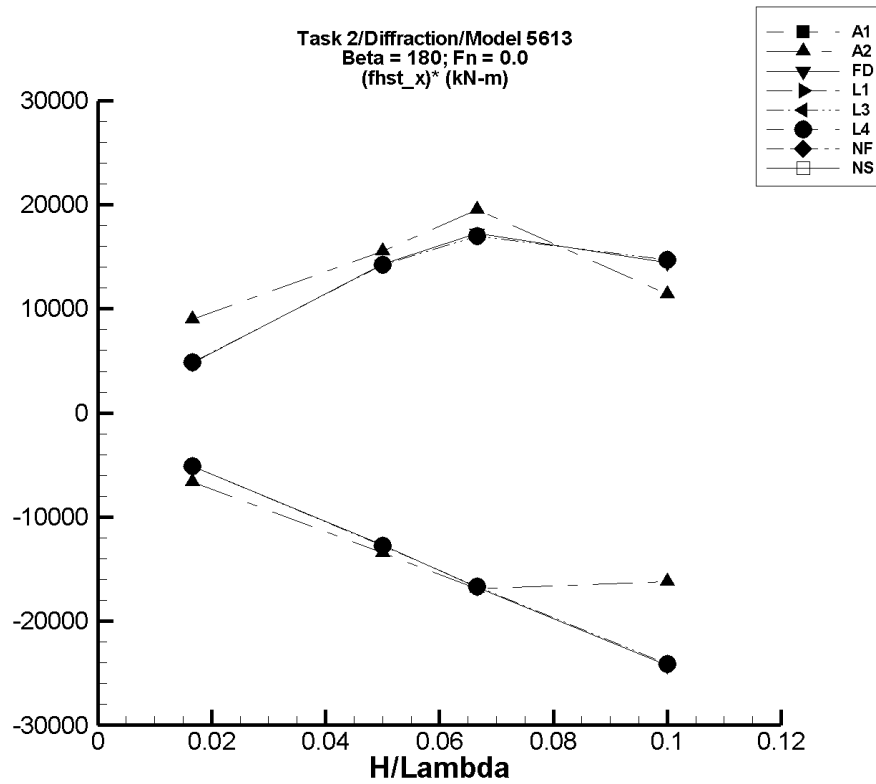


Figure Q-69. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-545. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-546. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.2 | -96.8 | 180. | -89.6 | 172. | -6.65E+03 | 9.03E+03 |
| 1/20 | 25.3 | -683. | 873. | -647. | 803. | -1.34E+04 | 1.56E+04 |
| 1/15 | 10.3 | -1.17E+03 | 1.40E+03 | -1.12E+03 | 1.31E+03 | -1.69E+04 | 1.95E+04 |
| 1/10 | 141. | -1.78E+03 | 1.46E+03 | -1.48E+03 | 1.28E+03 | -1.62E+04 | 1.14E+04 |

Table Q-547. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.9 | -99.1 | 72.1 | -95.8 | 69.1 | -5.09E+03 | 4.80E+03 |
| 1/20 | -28.2 | -689. | 704. | -661. | 685. | -1.27E+04 | 1.43E+04 |
| 1/15 | -26.7 | -1.19E+03 | 1.15E+03 | -1.14E+03 | 1.12E+03 | -1.68E+04 | 1.73E+04 |
| 1/10 | -19.0 | -2.63E+03 | 1.52E+03 | -2.45E+03 | 1.42E+03 | -2.43E+04 | 1.44E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-548. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|-------------|-----------------------------------------------|-------------|---------------------------------------------------|-------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean | Min. | Max. | Min. | Max. | Min. | Max. |
| | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-549. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|-------------|-----------------------------------------------|-------------|---------------------------------------------------|-------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean | Min. | Max. | Min. | Max. | Min. | Max. |
| | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | -40.1 | -127. | 42.3 | -126. | 40.8 | -5.15E+03 | 4.85E+03 |
| 1/20 | -52.2 | -700. | 664. | -691. | 660. | -1.28E+04 | 1.42E+04 |
| 1/15 | -44.3 | -1.17E+03 | 1.10E+03 | -1.16E+03 | 1.09E+03 | -1.67E+04 | 1.70E+04 |
| 1/10 | -39.1 | -2.56E+03 | 1.46E+03 | -2.45E+03 | 1.43E+03 | -2.41E+04 | 1.47E+04 |

Table Q-550. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|-------------|-----------------------------------------------|-------------|---------------------------------------------------|-------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean | Min. | Max. | Min. | Max. | Min. | Max. |
| | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | -40.1 | -127. | 42.3 | -126. | 40.8 | -5.15E+03 | 4.85E+03 |
| 1/20 | -52.2 | -700. | 664. | -691. | 660. | -1.28E+04 | 1.42E+04 |
| 1/15 | -44.3 | -1.17E+03 | 1.10E+03 | -1.16E+03 | 1.09E+03 | -1.67E+04 | 1.70E+04 |
| 1/10 | -39.1 | -2.56E+03 | 1.46E+03 | -2.45E+03 | 1.43E+03 | -2.41E+04 | 1.47E+04 |

Table Q-551. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-552. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

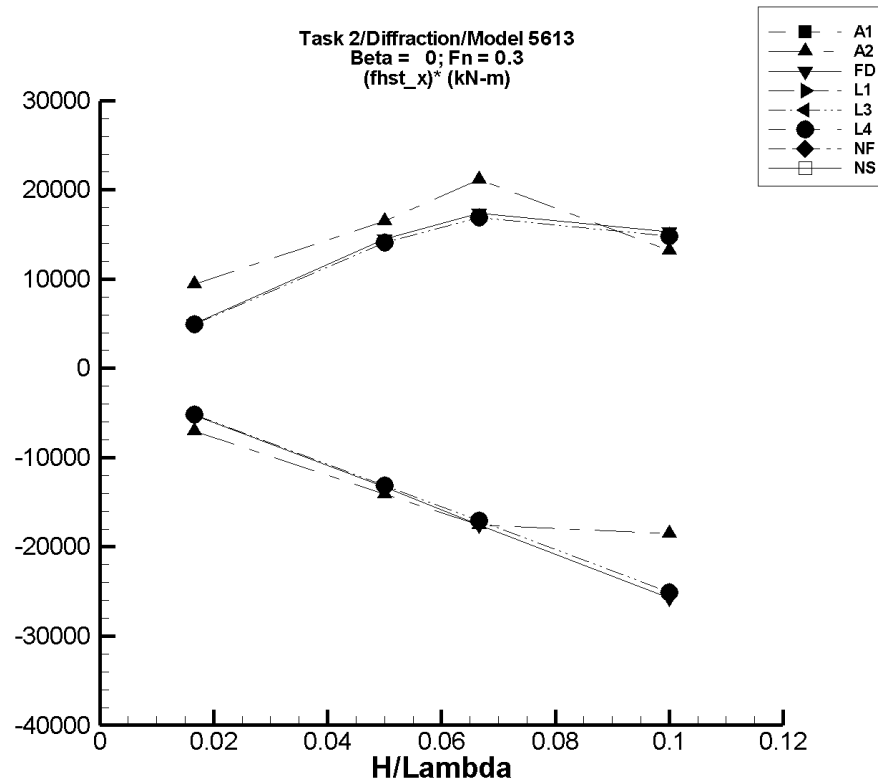


Figure Q-70. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-553. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-554. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.4 | -96.8 | 180. | -96.4 | 179. | -7.07E+03 | 9.46E+03 |
| 1/20 | 25.4 | -683. | 874. | -681. | 850. | -1.41E+04 | 1.65E+04 |
| 1/15 | -2.07 | -1.18E+03 | 1.42E+03 | -1.17E+03 | 1.41E+03 | -1.76E+04 | 2.12E+04 |
| 1/10 | 132. | -1.83E+03 | 1.47E+03 | -1.72E+03 | 1.45E+03 | -1.85E+04 | 1.32E+04 |

Table Q-555. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -11.3 | -99.1 | 72.1 | -98.9 | 71.8 | -5.26E+03 | 4.98E+03 |
| 1/20 | -21.5 | -689. | 704. | -688. | 701. | -1.33E+04 | 1.45E+04 |
| 1/15 | -16.3 | -1.19E+03 | 1.15E+03 | -1.19E+03 | 1.14E+03 | -1.76E+04 | 1.74E+04 |
| 1/10 | -19.4 | -2.63E+03 | 1.52E+03 | -2.59E+03 | 1.51E+03 | -2.58E+04 | 1.53E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-556. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-557. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -40.2 | -127. | 42.3 | -127. | 42.1 | -5.22E+03 | 4.94E+03 |
| 1/20 | -40.9 | -700. | 664. | -700. | 663. | -1.32E+04 | 1.41E+04 |
| 1/15 | -29.6 | -1.17E+03 | 1.10E+03 | -1.17E+03 | 1.10E+03 | -1.71E+04 | 1.69E+04 |
| 1/10 | -29.0 | -2.56E+03 | 1.46E+03 | -2.54E+03 | 1.45E+03 | -2.51E+04 | 1.48E+04 |

Table Q-558. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -40.2 | -127. | 42.3 | -127. | 42.1 | -5.22E+03 | 4.94E+03 |
| 1/20 | -40.9 | -700. | 664. | -700. | 663. | -1.32E+04 | 1.41E+04 |
| 1/15 | -29.6 | -1.17E+03 | 1.10E+03 | -1.17E+03 | 1.10E+03 | -1.71E+04 | 1.69E+04 |
| 1/10 | -29.0 | -2.56E+03 | 1.46E+03 | -2.54E+03 | 1.45E+03 | -2.51E+04 | 1.48E+04 |

Table Q-559. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-560. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

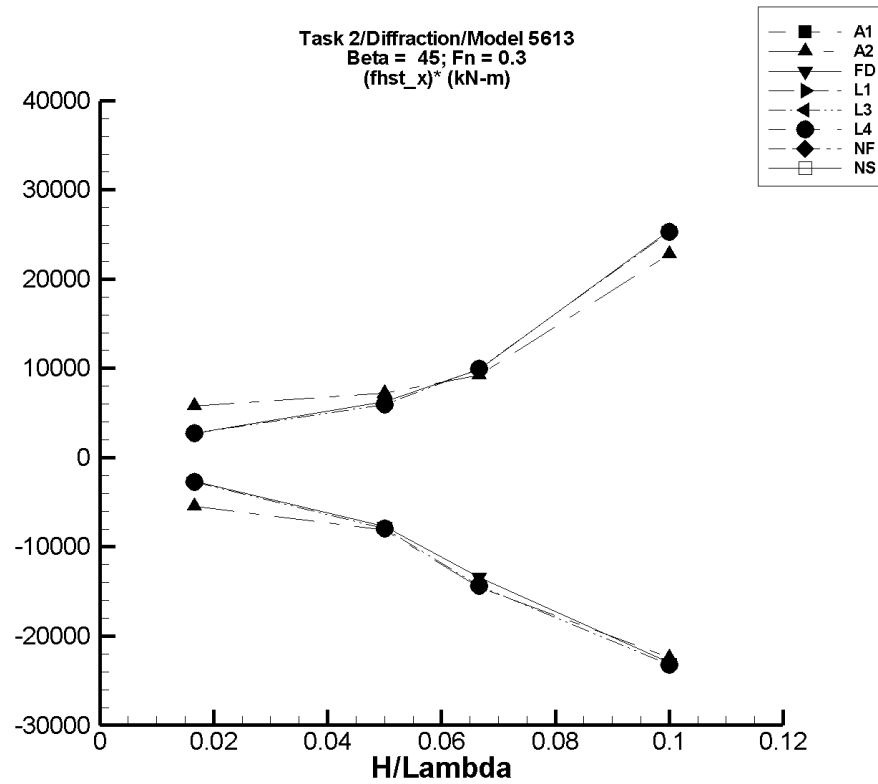


Figure Q-71. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-561. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-562. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 19.9 | -71.8 | 117. | -70.9 | 117. | -5.45E+03 | 5.80E+03 |
| 1/20 | 15.2 | -542. | 698. | -390. | 375. | -8.11E+03 | 7.20E+03 |
| 1/15 | 10.5 | -1.05E+03 | 668. | -957. | 624. | -1.45E+04 | 9.21E+03 |
| 1/10 | 40.5 | -2.31E+03 | 2.34E+03 | -2.20E+03 | 2.32E+03 | -2.24E+04 | 2.28E+04 |

Table Q-563. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.1 | -55.3 | 35.5 | -54.9 | 35.1 | -2.69E+03 | 2.72E+03 |
| 1/20 | -11.8 | -411. | 304. | -399. | 300. | -7.75E+03 | 6.24E+03 |
| 1/15 | -15.6 | -978. | 658. | -910. | 642. | -1.34E+04 | 9.86E+03 |
| 1/10 | -28.8 | -2.36E+03 | 2.54E+03 | -2.33E+03 | 2.51E+03 | -2.30E+04 | 2.54E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-564. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|-------------|-----------------------------------------------|-------------|---------------------------------------------------|-------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean | Min. | Max. | Min. | Max. | Min. | Max. |
| | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-565. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|-------------|-----------------------------------------------|-------------|---------------------------------------------------|-------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean | Min. | Max. | Min. | Max. | Min. | Max. |
| | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | -39.5 | -85.4 | 5.43 | -85.2 | 5.30 | -2.74E+03 | 2.69E+03 |
| 1/20 | -35.8 | -438. | 264. | -434. | 263. | -7.97E+03 | 5.97E+03 |
| 1/15 | -29.5 | -1.01E+03 | 643. | -988. | 635. | -1.44E+04 | 9.97E+03 |
| 1/10 | -20.7 | -2.36E+03 | 2.53E+03 | -2.34E+03 | 2.51E+03 | -2.32E+04 | 2.53E+04 |

Table Q-566. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|-------------|-----------------------------------------------|-------------|---------------------------------------------------|-------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean | Min. | Max. | Min. | Max. | Min. | Max. |
| | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) | (kN) |
| 1/60 | -39.5 | -85.4 | 5.43 | -85.2 | 5.30 | -2.74E+03 | 2.69E+03 |
| 1/20 | -35.8 | -438. | 264. | -434. | 263. | -7.97E+03 | 5.97E+03 |
| 1/15 | -29.5 | -1.01E+03 | 643. | -988. | 635. | -1.44E+04 | 9.97E+03 |
| 1/10 | -20.7 | -2.36E+03 | 2.53E+03 | -2.34E+03 | 2.51E+03 | -2.32E+04 | 2.53E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-567. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-568. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

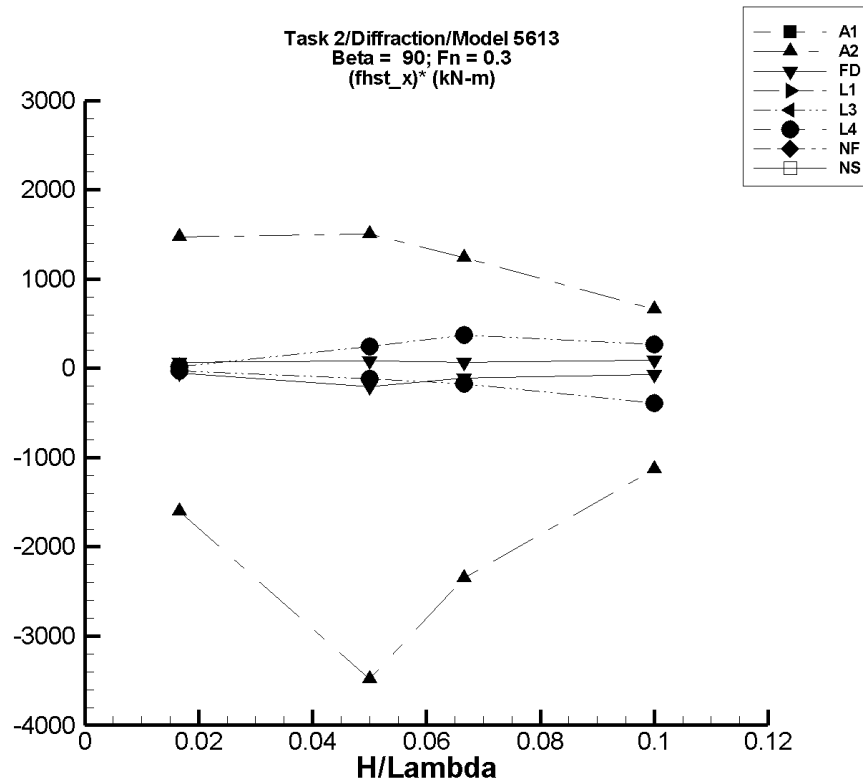


Figure Q-72. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-569. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-570. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.3 | -13.1 | 45.7 | -5.42 | 45.8 | -1.60E+03 | 1.47E+03 |
| 1/20 | 0.196 | -1.47E+03 | 81.4 | -174. | 75.5 | -3.48E+03 | 1.51E+03 |
| 1/15 | -16.9 | -181. | 72.9 | -173. | 65.6 | -2.35E+03 | 1.24E+03 |
| 1/10 | -18.1 | -366. | 99.1 | -131. | 48.1 | -1.13E+03 | 662. |

Table Q-571. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.4 | -11.3 | -9.04 | -11.2 | -9.26 | -52.6 | 65.6 |
| 1/20 | -12.7 | -23.5 | -7.90 | -22.9 | -8.53 | -204. | 82.8 |
| 1/15 | -12.9 | -22.6 | -3.13 | -20.3 | -8.54 | -112. | 64.8 |
| 1/10 | -8.39 | -27.6 | 5.17 | -15.5 | 0.709 | -70.9 | 91.0 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-572. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-573. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.3 | -39.8 | -38.8 | -39.8 | -39.0 | -25.0 | 20.1 |
| 1/20 | -36.7 | -42.9 | -24.2 | -42.6 | -24.3 | -119. | 247. |
| 1/15 | -33.3 | -46.0 | -7.96 | -45.0 | -8.28 | -176. | 375. |
| 1/10 | -26.6 | -70.0 | 16.0 | -65.7 | -2.86E-02 | -391. | 266. |

Table Q-574. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.3 | -39.8 | -38.8 | -39.8 | -39.0 | -25.0 | 20.1 |
| 1/20 | -36.7 | -42.9 | -24.2 | -42.6 | -24.3 | -119. | 247. |
| 1/15 | -33.3 | -46.0 | -7.96 | -45.0 | -8.28 | -176. | 375. |
| 1/10 | -26.6 | -70.0 | 16.0 | -65.7 | -2.86E-02 | -391. | 266. |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-575. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-576. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

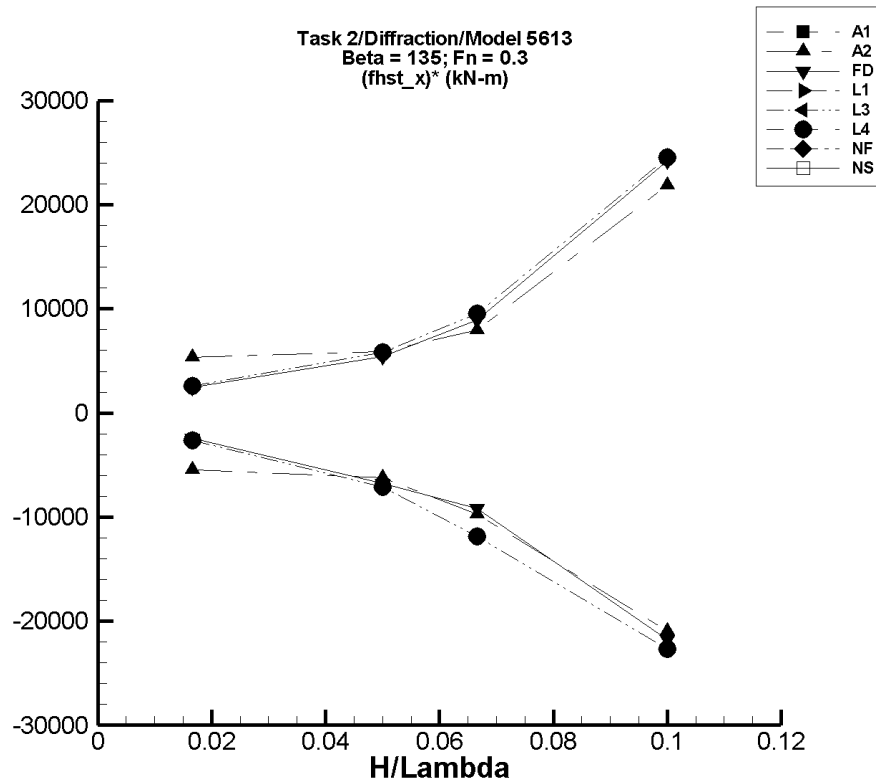


Figure Q-73. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-577. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-578. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.1 | -71.7 | 117. | -69.5 | 110. | -5.44E+03 | 5.31E+03 |
| 1/20 | 14.1 | -398. | 354. | -298. | 310. | -6.24E+03 | 5.91E+03 |
| 1/15 | 4.01 | -1.05E+03 | 642. | -645. | 536. | -9.74E+03 | 7.98E+03 |
| 1/10 | 24.4 | -2.30E+03 | 2.34E+03 | -2.07E+03 | 2.21E+03 | -2.09E+04 | 2.19E+04 |

Table Q-579. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.0 | -55.3 | 35.5 | -51.0 | 30.9 | -2.46E+03 | 2.46E+03 |
| 1/20 | -3.55 | -411. | 304. | -341. | 267. | -6.75E+03 | 5.41E+03 |
| 1/15 | -2.47 | -978. | 649. | -614. | 593. | -9.17E+03 | 8.94E+03 |
| 1/10 | -5.01 | -2.35E+03 | 2.52E+03 | -2.18E+03 | 2.42E+03 | -2.18E+04 | 2.42E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–580. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–581. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.5 | -85.4 | 5.43 | -83.8 | 3.91 | -2.66E+03 | 2.61E+03 |
| 1/20 | -32.0 | -438. | 264. | -389. | 260. | -7.15E+03 | 5.84E+03 |
| 1/15 | -21.9 | -1.01E+03 | 643. | -814. | 616. | -1.19E+04 | 9.58E+03 |
| 1/10 | 2.01 | -2.35E+03 | 2.53E+03 | -2.26E+03 | 2.46E+03 | -2.27E+04 | 2.46E+04 |

Table Q–582. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -39.5 | -85.4 | 5.43 | -83.8 | 3.91 | -2.66E+03 | 2.61E+03 |
| 1/20 | -32.0 | -438. | 264. | -389. | 260. | -7.15E+03 | 5.84E+03 |
| 1/15 | -21.9 | -1.01E+03 | 643. | -814. | 616. | -1.19E+04 | 9.58E+03 |
| 1/10 | 2.01 | -2.35E+03 | 2.53E+03 | -2.26E+03 | 2.46E+03 | -2.27E+04 | 2.46E+04 |

Table Q-583. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-584. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

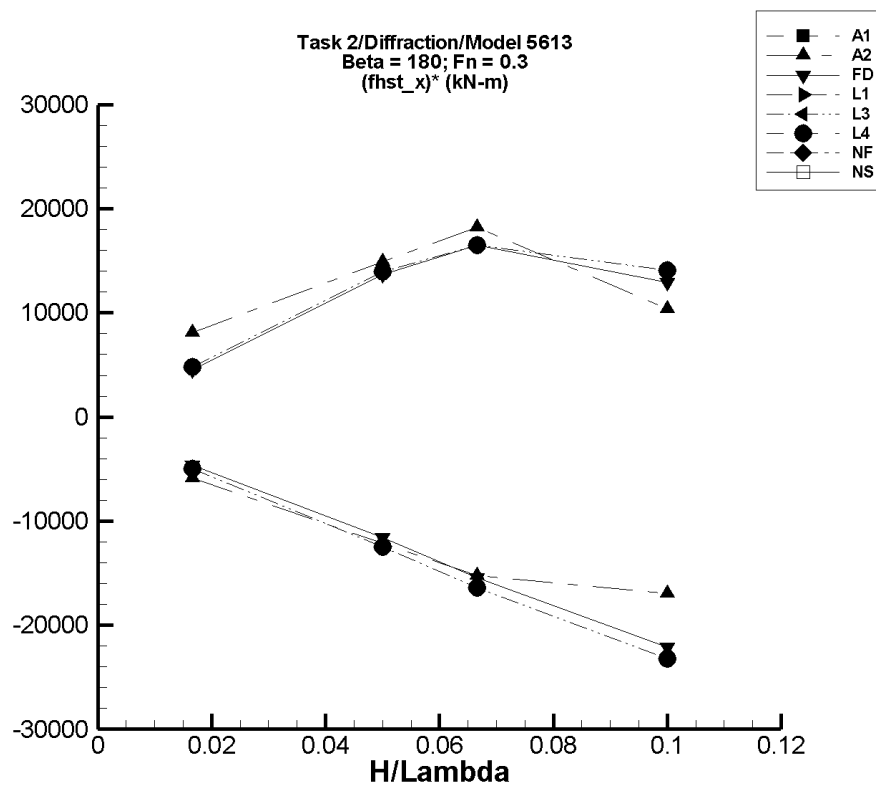


Figure Q-74. Minimum and maximum of filtered $(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-585. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-586. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 21.5 | -96.6 | 179. | -76.0 | 156. | -5.85E+03 | 8.09E+03 |
| 1/20 | 25.8 | -682. | 852. | -581. | 772. | -1.21E+04 | 1.49E+04 |
| 1/15 | 0.746 | -1.17E+03 | 1.41E+03 | -1.02E+03 | 1.21E+03 | -1.52E+04 | 1.82E+04 |
| 1/10 | 93.8 | -1.81E+03 | 1.44E+03 | -1.60E+03 | 1.13E+03 | -1.70E+04 | 1.04E+04 |

Table Q-587. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.3 | -99.0 | 71.6 | -87.8 | 64.7 | -4.65E+03 | 4.50E+03 |
| 1/20 | -25.5 | -686. | 703. | -604. | 657. | -1.16E+04 | 1.37E+04 |
| 1/15 | -21.0 | -1.19E+03 | 1.15E+03 | -1.05E+03 | 1.08E+03 | -1.54E+04 | 1.65E+04 |
| 1/10 | -23.6 | -2.62E+03 | 1.51E+03 | -2.23E+03 | 1.27E+03 | -2.21E+04 | 1.29E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-588. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-589. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -40.2 | -127. | 42.2 | -123. | 39.4 | -4.98E+03 | 4.78E+03 |
| 1/20 | -46.1 | -700. | 664. | -670. | 650. | -1.25E+04 | 1.39E+04 |
| 1/15 | -27.6 | -1.17E+03 | 1.10E+03 | -1.12E+03 | 1.07E+03 | -1.64E+04 | 1.65E+04 |
| 1/10 | -38.9 | -2.56E+03 | 1.46E+03 | -2.36E+03 | 1.37E+03 | -2.32E+04 | 1.41E+04 |

Table Q-590. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -40.2 | -127. | 42.2 | -123. | 39.4 | -4.98E+03 | 4.78E+03 |
| 1/20 | -46.1 | -700. | 664. | -670. | 650. | -1.25E+04 | 1.39E+04 |
| 1/15 | -27.6 | -1.17E+03 | 1.10E+03 | -1.12E+03 | 1.07E+03 | -1.64E+04 | 1.65E+04 |
| 1/10 | -38.9 | -2.56E+03 | 1.46E+03 | -2.36E+03 | 1.37E+03 | -2.32E+04 | 1.41E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–591. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–592. Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{hst}} \rangle$ | Unfiltered F_x^{hst} | | Filtered F_x^{hst} | | Filtered $(F_x^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

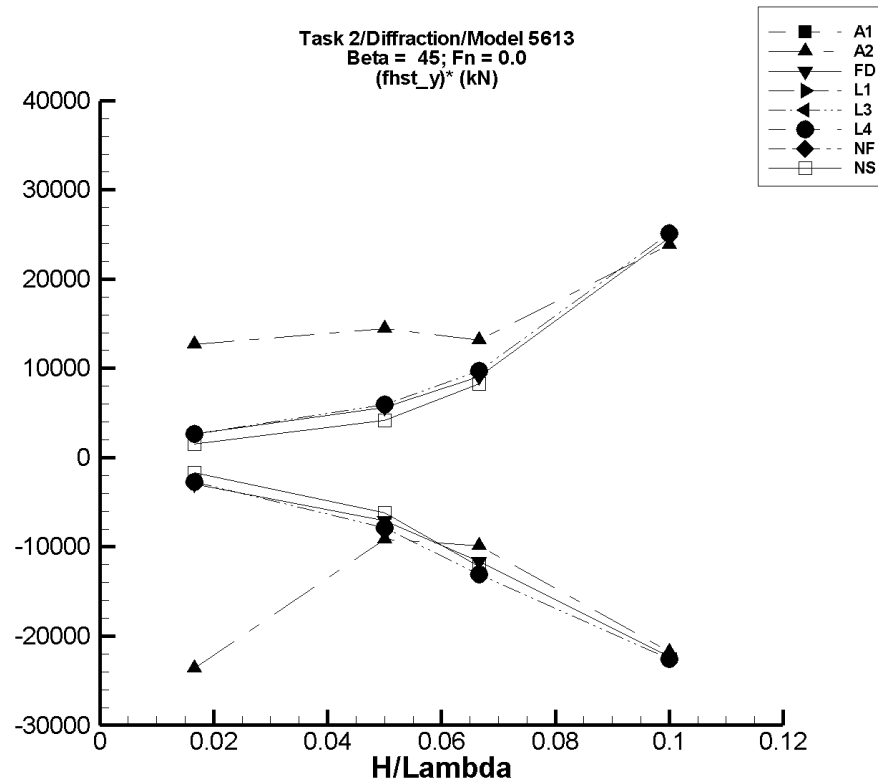


Figure Q-75. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-593. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-594. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.89E-02 | -454. | 267. | -393. | 212. | -2.36E+04 | 1.27E+04 |
| 1/20 | 23.7 | -1.93E+03 | 2.90E+03 | -436. | 745. | -9.19E+03 | 1.44E+04 |
| 1/15 | 79.5 | -938. | 3.05E+03 | -579. | 957. | -9.88E+03 | 1.32E+04 |
| 1/10 | 81.7 | -2.37E+03 | 2.88E+03 | -2.10E+03 | 2.47E+03 | -2.18E+04 | 2.38E+04 |

Table Q–595. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.452 | -52.6 | 50.3 | -48.7 | 44.1 | -2.95E+03 | 2.62E+03 |
| 1/20 | 12.7 | -398. | 310. | -343. | 295. | -7.11E+03 | 5.65E+03 |
| 1/15 | 18.2 | -991. | 652. | -756. | 621. | -1.16E+04 | 9.04E+03 |
| 1/10 | -0.809 | -2.36E+03 | 2.59E+03 | -2.23E+03 | 2.46E+03 | -2.23E+04 | 2.46E+04 |

Table Q–596. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-597. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.455 | -45.4 | 44.7 | -44.6 | 44.1 | -2.70E+03 | 2.62E+03 |
| 1/20 | 2.06 | -415. | 303. | -393. | 299. | -7.90E+03 | 5.93E+03 |
| 1/15 | -10.2 | -993. | 656. | -883. | 638. | -1.31E+04 | 9.72E+03 |
| 1/10 | -20.7 | -2.37E+03 | 2.53E+03 | -2.28E+03 | 2.49E+03 | -2.26E+04 | 2.51E+04 |

Table Q-598. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.455 | -45.4 | 44.7 | -44.6 | 44.1 | -2.70E+03 | 2.62E+03 |
| 1/20 | 2.06 | -415. | 303. | -393. | 299. | -7.90E+03 | 5.93E+03 |
| 1/15 | -10.2 | -993. | 656. | -883. | 638. | -1.31E+04 | 9.72E+03 |
| 1/10 | -20.7 | -2.37E+03 | 2.53E+03 | -2.28E+03 | 2.49E+03 | -2.26E+04 | 2.51E+04 |

Table Q-599. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-600. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.390 | -29.5 | 26.6 | -28.4 | 25.4 | -1.68E+03 | 1.55E+03 |
| 1/20 | -23.5 | -373. | 195. | -332. | 185. | -6.16E+03 | 4.17E+03 |
| 1/15 | -54.5 | -966. | 511. | -870. | 495. | -1.22E+04 | 8.24E+03 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

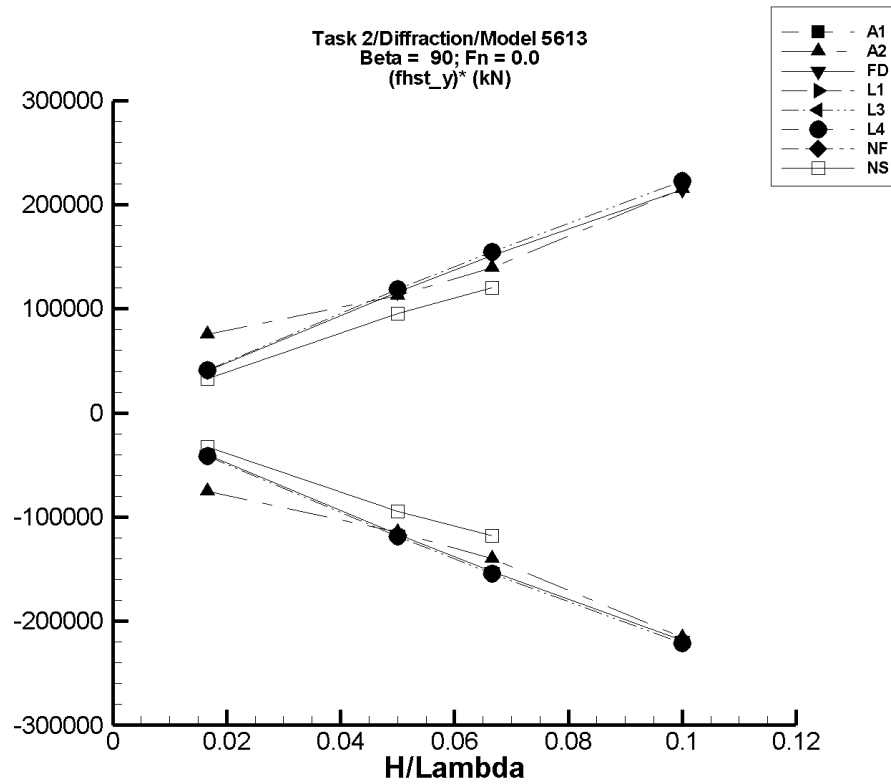


Figure Q-76. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-601. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-602. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.90 | -1.33E+03 | 1.33E+03 | -1.26E+03 | 1.26E+03 | -7.56E+04 | 7.58E+04 |
| 1/20 | 32.3 | -6.33E+03 | 6.30E+03 | -5.69E+03 | 5.66E+03 | -1.14E+05 | 1.13E+05 |
| 1/15 | 3.62 | -9.64E+03 | 9.86E+03 | -9.31E+03 | 9.29E+03 | -1.40E+05 | 1.39E+05 |
| 1/10 | -3.63 | -2.27E+04 | 2.24E+04 | -2.16E+04 | 2.15E+04 | -2.16E+05 | 2.15E+05 |

Table Q–603. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.415 | -696. | 697. | -669. | 668. | -4.02E+04 | 4.01E+04 |
| 1/20 | 14.4 | -6.04E+03 | 6.04E+03 | -5.81E+03 | 5.81E+03 | -1.17E+05 | 1.16E+05 |
| 1/15 | 42.3 | -1.05E+04 | 1.05E+04 | -1.01E+04 | 1.01E+04 | -1.52E+05 | 1.51E+05 |
| 1/10 | 182. | -2.27E+04 | 2.27E+04 | -2.17E+04 | 2.17E+04 | -2.19E+05 | 2.15E+05 |

Table Q–604. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-605. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.417 | -697. | 697. | -688. | 687. | -4.12E+04 | 4.13E+04 |
| 1/20 | -4.45 | -6.01E+03 | 6.01E+03 | -5.93E+03 | 5.93E+03 | -1.19E+05 | 1.19E+05 |
| 1/15 | -10.2 | -1.05E+04 | 1.05E+04 | -1.03E+04 | 1.03E+04 | -1.55E+05 | 1.55E+05 |
| 1/10 | -76.9 | -2.26E+04 | 2.26E+04 | -2.22E+04 | 2.22E+04 | -2.21E+05 | 2.23E+05 |

Table Q-606. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.417 | -697. | 697. | -688. | 687. | -4.12E+04 | 4.13E+04 |
| 1/20 | -4.45 | -6.01E+03 | 6.01E+03 | -5.93E+03 | 5.93E+03 | -1.19E+05 | 1.19E+05 |
| 1/15 | -10.2 | -1.05E+04 | 1.05E+04 | -1.03E+04 | 1.03E+04 | -1.55E+05 | 1.55E+05 |
| 1/10 | -76.9 | -2.26E+04 | 2.26E+04 | -2.22E+04 | 2.22E+04 | -2.21E+05 | 2.23E+05 |

Table Q-607. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-608. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.587 | -567. | 567. | -546. | 544. | -3.27E+04 | 3.27E+04 |
| 1/20 | -38.9 | -4.96E+03 | 4.94E+03 | -4.77E+03 | 4.74E+03 | -9.47E+04 | 9.55E+04 |
| 1/15 | -88.4 | -8.16E+03 | 8.12E+03 | -7.96E+03 | 7.93E+03 | -1.18E+05 | 1.20E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

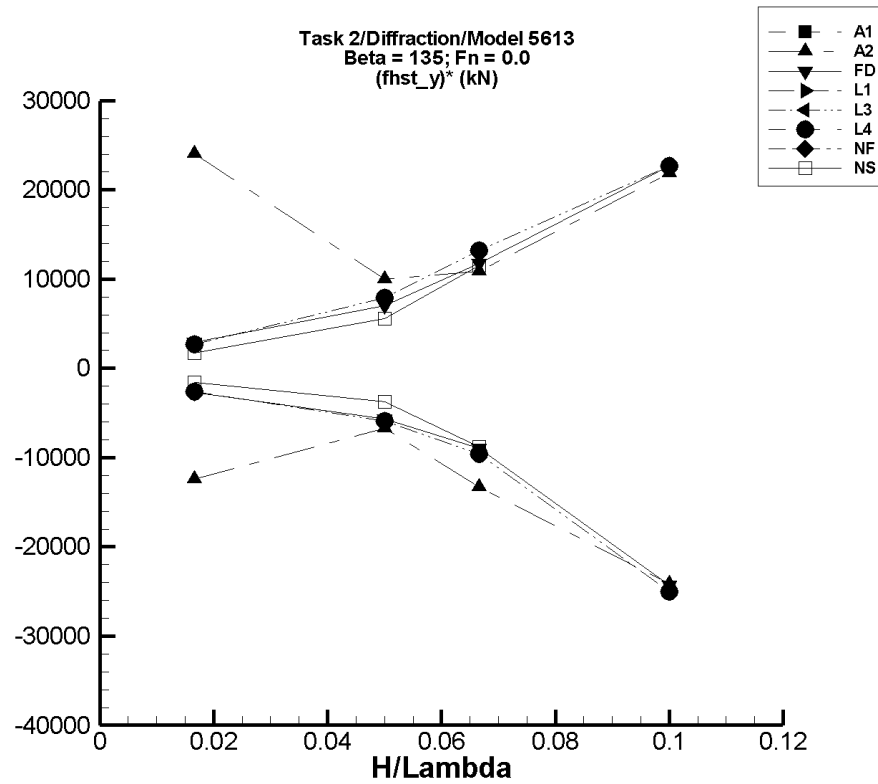


Figure Q-77. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-609. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-610. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.73 | -268. | 457. | -214. | 393. | -1.24E+04 | 2.40E+04 |
| 1/20 | 16.8 | -367. | 2.83E+03 | -320. | 518. | -6.73E+03 | 1.00E+04 |
| 1/15 | -52.1 | -3.05E+03 | 1.31E+03 | -939. | 672. | -1.33E+04 | 1.09E+04 |
| 1/10 | -58.0 | -2.60E+03 | 2.55E+03 | -2.47E+03 | 2.13E+03 | -2.41E+04 | 2.19E+04 |

Table Q-611. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.201 | -50.4 | 52.5 | -44.2 | 48.8 | -2.67E+03 | 2.92E+03 |
| 1/20 | -9.52 | -311. | 401. | -295. | 342. | -5.71E+03 | 7.04E+03 |
| 1/15 | -25.3 | -652. | 968. | -622. | 759. | -8.95E+03 | 1.18E+04 |
| 1/10 | -29.9 | -2.58E+03 | 2.36E+03 | -2.46E+03 | 2.24E+03 | -2.43E+04 | 2.27E+04 |

Table Q-612. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-613. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.307 | -44.7 | 45.4 | -44.1 | 44.6 | -2.63E+03 | 2.69E+03 |
| 1/20 | -0.987 | -304. | 415. | -298. | 393. | -5.94E+03 | 7.88E+03 |
| 1/15 | 3.15 | -653. | 993. | -638. | 883. | -9.62E+03 | 1.32E+04 |
| 1/10 | 8.71 | -2.53E+03 | 2.38E+03 | -2.49E+03 | 2.28E+03 | -2.50E+04 | 2.27E+04 |

Table Q-614. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.307 | -44.7 | 45.4 | -44.1 | 44.6 | -2.63E+03 | 2.69E+03 |
| 1/20 | -0.987 | -304. | 415. | -298. | 393. | -5.94E+03 | 7.88E+03 |
| 1/15 | 3.15 | -653. | 993. | -638. | 883. | -9.62E+03 | 1.32E+04 |
| 1/10 | 8.71 | -2.53E+03 | 2.38E+03 | -2.49E+03 | 2.28E+03 | -2.50E+04 | 2.27E+04 |

Table Q-615. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-616. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.469 | -27.8 | 28.8 | -26.7 | 27.7 | -1.57E+03 | 1.69E+03 |
| 1/20 | -31.6 | -259. | 298. | -218. | 246. | -3.73E+03 | 5.55E+03 |
| 1/15 | -58.8 | -722. | 756. | -647. | 711. | -8.82E+03 | 1.15E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

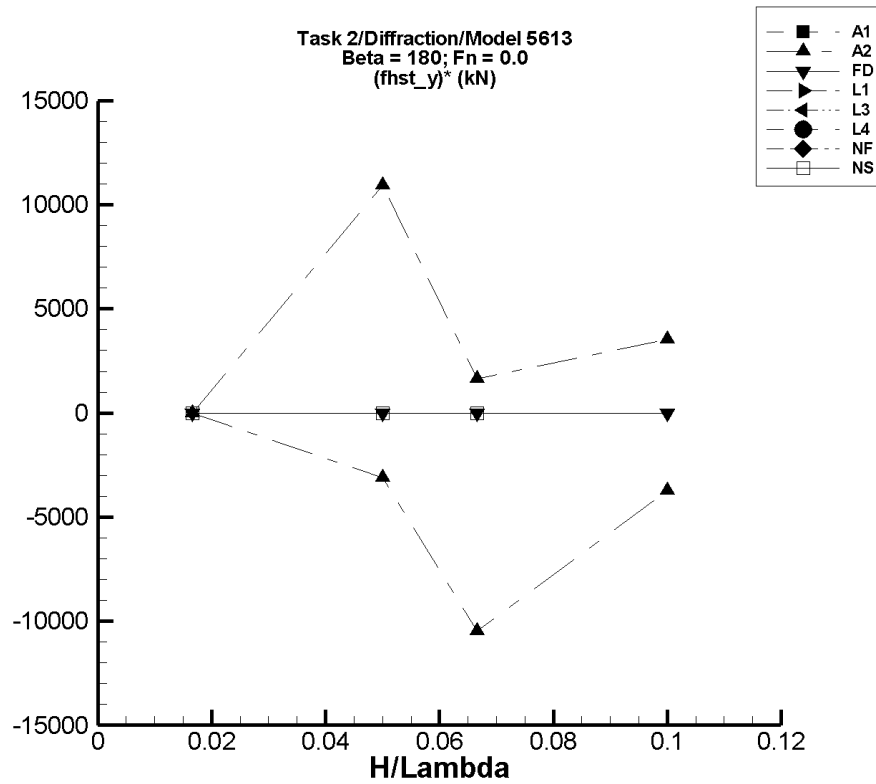


Figure Q-78. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-617. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-618. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.02E-06 | -1.71E-04 | 1.32E-04 | -1.13E-04 | 4.57E-05 | -6.53E-03 | 2.98E-03 |
| 1/20 | 80.7 | -3.23E-04 | 4.75E+03 | -74.1 | 627. | -3.10E+03 | 1.09E+04 |
| 1/15 | -19.5 | -5.38E+03 | 676. | -718. | 89.8 | -1.05E+04 | 1.64E+03 |
| 1/10 | 13.5 | -2.62E+03 | 2.61E+03 | -359. | 368. | -3.72E+03 | 3.54E+03 |

Table Q-619. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.21E-05 | -4.07E-04 | 3.74E-04 | -1.16E-05 | 8.12E-05 | -2.02E-03 | 3.55E-03 |
| 1/20 | 3.12E-03 | -1.49E-02 | 1.09E-02 | -8.31E-04 | 9.95E-03 | -7.91E-02 | 0.136 |
| 1/15 | 3.29E-03 | -2.42E-03 | 1.63E-02 | -7.47E-04 | 1.12E-02 | -6.05E-02 | 0.119 |
| 1/10 | 1.43E-03 | -1.99E-02 | 1.62E-02 | -3.32E-03 | 6.74E-03 | -4.74E-02 | 5.31E-02 |

Table Q-620. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-621. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-622. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-623. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-624. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -7.78E-05 | -1.50E-03 | 1.69E-03 | -6.90E-04 | 5.07E-04 | -3.68E-02 | 3.51E-02 |
| 1/20 | -1.11E-04 | -2.54E-03 | 2.41E-03 | -1.32E-03 | 8.48E-04 | -2.41E-02 | 1.92E-02 |
| 1/15 | -2.45E-04 | -3.69E-03 | 3.08E-03 | -1.46E-03 | 8.14E-04 | -1.83E-02 | 1.59E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

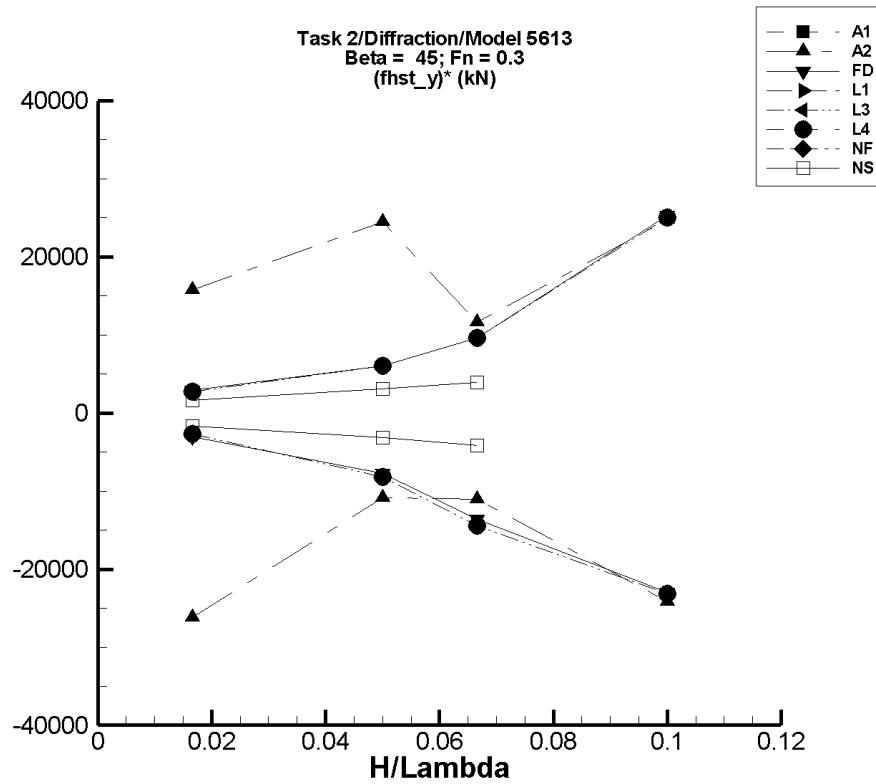


Figure Q-79. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-625. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-626. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.02 | -457. | 268. | -441. | 258. | -2.62E+04 | 1.57E+04 |
| 1/20 | 38.1 | -590. | 2.87E+03 | -504. | 1.26E+03 | -1.08E+04 | 2.45E+04 |
| 1/15 | 46.1 | -1.32E+03 | 2.26E+03 | -693. | 821. | -1.11E+04 | 1.16E+04 |
| 1/10 | 66.9 | -6.41E+03 | 6.63E+03 | -2.35E+03 | 2.54E+03 | -2.42E+04 | 2.47E+04 |

Table Q-627. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.198 | -52.5 | 50.4 | -51.4 | 48.9 | -3.10E+03 | 2.92E+03 |
| 1/20 | 0.846 | -401. | 311. | -387. | 303. | -7.77E+03 | 6.05E+03 |
| 1/15 | -2.37 | -987. | 651. | -908. | 637. | -1.36E+04 | 9.59E+03 |
| 1/10 | -19.4 | -2.36E+03 | 2.58E+03 | -2.32E+03 | 2.51E+03 | -2.30E+04 | 2.53E+04 |

Table Q-628. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-629. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.167 | -45.4 | 44.7 | -45.1 | 44.6 | -2.69E+03 | 2.69E+03 |
| 1/20 | 0.948 | -416. | 303. | -407. | 302. | -8.16E+03 | 6.03E+03 |
| 1/15 | 3.73 | -990. | 653. | -962. | 643. | -1.45E+04 | 9.59E+03 |
| 1/10 | 6.14 | -2.39E+03 | 2.53E+03 | -2.31E+03 | 2.51E+03 | -2.31E+04 | 2.50E+04 |

Table Q-630. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.167 | -45.4 | 44.7 | -45.1 | 44.6 | -2.69E+03 | 2.69E+03 |
| 1/20 | 0.948 | -416. | 303. | -407. | 302. | -8.16E+03 | 6.03E+03 |
| 1/15 | 3.73 | -990. | 653. | -962. | 643. | -1.45E+04 | 9.59E+03 |
| 1/10 | 6.14 | -2.39E+03 | 2.53E+03 | -2.31E+03 | 2.51E+03 | -2.31E+04 | 2.50E+04 |

Table Q-631. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-632. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.232 | -29.2 | 28.2 | -28.1 | 27.1 | -1.67E+03 | 1.64E+03 |
| 1/20 | -8.66 | -174. | 151. | -168. | 144. | -3.19E+03 | 3.05E+03 |
| 1/15 | -21.0 | -332. | 249. | -299. | 241. | -4.17E+03 | 3.93E+03 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

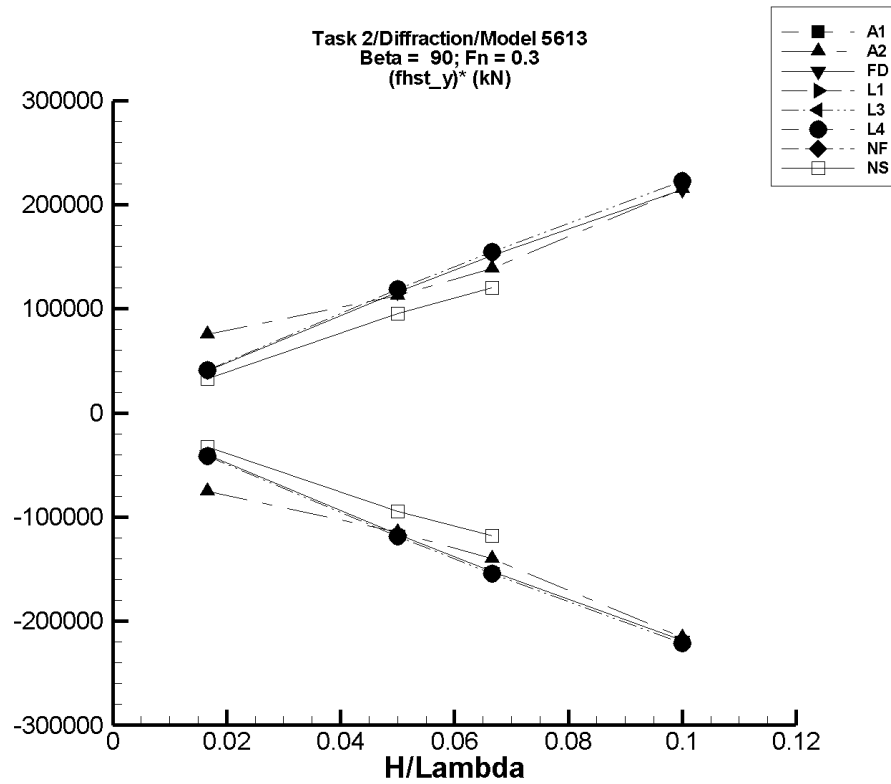


Figure Q–80. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-633. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-634. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.90 | -1.33E+03 | 1.33E+03 | -1.26E+03 | 1.26E+03 | -7.56E+04 | 7.58E+04 |
| 1/20 | 32.3 | -6.33E+03 | 6.30E+03 | -5.69E+03 | 5.66E+03 | -1.14E+05 | 1.13E+05 |
| 1/15 | 19.4 | -9.64E+03 | 9.86E+03 | -9.31E+03 | 9.29E+03 | -1.40E+05 | 1.39E+05 |
| 1/10 | -3.63 | -2.27E+04 | 2.24E+04 | -2.16E+04 | 2.15E+04 | -2.16E+05 | 2.15E+05 |

Table Q–635. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.415 | -696. | 697. | -669. | 668. | -4.02E+04 | 4.01E+04 |
| 1/20 | 14.4 | -6.05E+03 | 6.04E+03 | -5.81E+03 | 5.81E+03 | -1.17E+05 | 1.16E+05 |
| 1/15 | 42.3 | -1.05E+04 | 1.05E+04 | -1.01E+04 | 1.01E+04 | -1.52E+05 | 1.51E+05 |
| 1/10 | 182. | -2.27E+04 | 2.27E+04 | -2.17E+04 | 2.17E+04 | -2.19E+05 | 2.15E+05 |

Table Q–636. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-637. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.416 | -697. | 697. | -688. | 687. | -4.12E+04 | 4.13E+04 |
| 1/20 | -4.45 | -6.01E+03 | 6.01E+03 | -5.93E+03 | 5.93E+03 | -1.19E+05 | 1.19E+05 |
| 1/15 | -10.2 | -1.05E+04 | 1.05E+04 | -1.03E+04 | 1.03E+04 | -1.55E+05 | 1.55E+05 |
| 1/10 | -76.9 | -2.26E+04 | 2.26E+04 | -2.22E+04 | 2.22E+04 | -2.21E+05 | 2.23E+05 |

Table Q-638. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.416 | -697. | 697. | -688. | 687. | -4.12E+04 | 4.13E+04 |
| 1/20 | -4.45 | -6.01E+03 | 6.01E+03 | -5.93E+03 | 5.93E+03 | -1.19E+05 | 1.19E+05 |
| 1/15 | -10.2 | -1.05E+04 | 1.05E+04 | -1.03E+04 | 1.03E+04 | -1.55E+05 | 1.55E+05 |
| 1/10 | -76.9 | -2.26E+04 | 2.26E+04 | -2.22E+04 | 2.22E+04 | -2.21E+05 | 2.23E+05 |

Table Q-639. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-640. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.587 | -567. | 567. | -546. | 544. | -3.27E+04 | 3.27E+04 |
| 1/20 | -38.9 | -4.96E+03 | 4.94E+03 | -4.77E+03 | 4.74E+03 | -9.47E+04 | 9.55E+04 |
| 1/15 | -88.4 | -8.16E+03 | 8.12E+03 | -7.96E+03 | 7.93E+03 | -1.18E+05 | 1.20E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

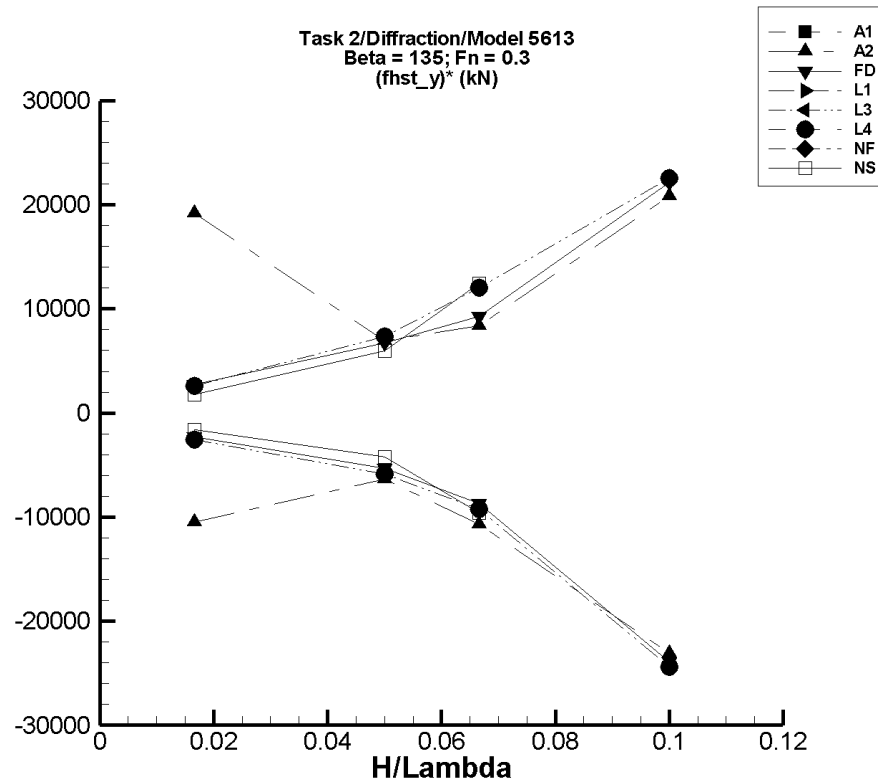


Figure Q-81. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-641. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-642. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.09 | -268. | 456. | -181. | 314. | -1.05E+04 | 1.92E+04 |
| 1/20 | 7.65 | -379. | 1.75E+03 | -310. | 353. | -6.35E+03 | 6.92E+03 |
| 1/15 | -16.3 | -889. | 719. | -727. | 540. | -1.07E+04 | 8.35E+03 |
| 1/10 | -68.6 | -2.59E+03 | 2.34E+03 | -2.38E+03 | 2.02E+03 | -2.31E+04 | 2.08E+04 |

Table Q-643. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.449 | -49.5 | 52.1 | -39.2 | 44.6 | -2.32E+03 | 2.70E+03 |
| 1/20 | -8.33 | -308. | 401. | -276. | 327. | -5.35E+03 | 6.71E+03 |
| 1/15 | -13.0 | -644. | 981. | -592. | 606. | -8.68E+03 | 9.29E+03 |
| 1/10 | -10.9 | -2.58E+03 | 2.36E+03 | -2.40E+03 | 2.20E+03 | -2.39E+04 | 2.21E+04 |

Table Q-644. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-645. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.217 | -44.6 | 45.4 | -43.2 | 43.8 | -2.60E+03 | 2.61E+03 |
| 1/20 | -4.55 | -303. | 415. | -299. | 363. | -5.89E+03 | 7.35E+03 |
| 1/15 | -11.6 | -656. | 967. | -628. | 789. | -9.25E+03 | 1.20E+04 |
| 1/10 | -27.8 | -2.53E+03 | 2.34E+03 | -2.46E+03 | 2.23E+03 | -2.44E+04 | 2.25E+04 |

Table Q-646. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.217 | -44.6 | 45.4 | -43.2 | 43.8 | -2.60E+03 | 2.61E+03 |
| 1/20 | -4.55 | -303. | 415. | -299. | 363. | -5.89E+03 | 7.35E+03 |
| 1/15 | -11.6 | -656. | 967. | -628. | 789. | -9.25E+03 | 1.20E+04 |
| 1/10 | -27.8 | -2.53E+03 | 2.34E+03 | -2.46E+03 | 2.23E+03 | -2.44E+04 | 2.25E+04 |

Table Q-647. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-648. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.517 | -28.3 | 29.6 | -27.1 | 28.4 | -1.60E+03 | 1.74E+03 |
| 1/20 | -33.4 | -287. | 326. | -245. | 265. | -4.24E+03 | 5.96E+03 |
| 1/15 | -64.3 | -779. | 795. | -706. | 767. | -9.62E+03 | 1.25E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

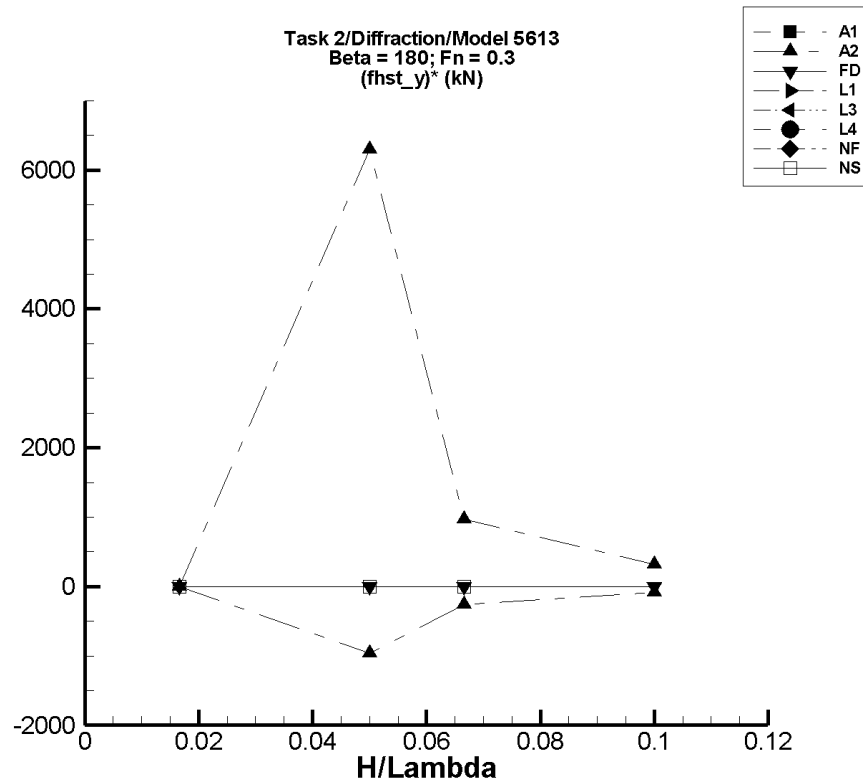


Figure Q-82. Minimum and maximum of filtered $(F_y^{\text{hst}} - \langle F_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-649. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-650. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -8.16E-06 | -1.72E-04 | 1.10E-04 | -5.66E-05 | 1.99E-05 | -2.90E-03 | 1.68E-03 |
| 1/20 | 19.6 | -3.46E-04 | 2.51E+03 | -28.7 | 335. | -966. | 6.30E+03 |
| 1/15 | 10.7 | -1.40E-03 | 564. | -6.41 | 75.2 | -257. | 968. |
| 1/10 | 4.62 | -9.57 | 274. | -4.21 | 36.5 | -88.4 | 318. |

Table Q-651. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.90E-04 | -1.27E-03 | 1.92E-03 | -5.40E-04 | 6.75E-04 | -4.38E-02 | 2.91E-02 |
| 1/20 | 1.47E-04 | -1.23E-02 | 1.53E-02 | -2.46E-03 | 3.48E-03 | -5.22E-02 | 6.67E-02 |
| 1/15 | 3.80E-04 | -1.75E-02 | 2.22E-02 | -1.09E-03 | 3.20E-03 | -2.20E-02 | 4.23E-02 |
| 1/10 | -1.48E-03 | -3.78E-02 | 4.43E-02 | -1.87E-02 | 9.69E-03 | -0.172 | 0.112 |

Table Q-652. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-653. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-654. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-655. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-656. Minimum and Maximum of Variables F_y^{hst} and $(F_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{hst}} \rangle$ | Unfiltered F_y^{hst} | | Filtered F_y^{hst} | | Filtered $(F_y^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -7.16E-05 | -2.00E-03 | 1.57E-03 | -7.39E-04 | 5.15E-04 | -4.00E-02 | 3.52E-02 |
| 1/20 | -4.48E-04 | -3.08E-03 | 2.57E-03 | -1.51E-03 | 3.19E-04 | -2.13E-02 | 1.53E-02 |
| 1/15 | -1.35E-05 | -3.87E-03 | 3.97E-03 | -1.14E-03 | 1.49E-03 | -1.69E-02 | 2.26E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

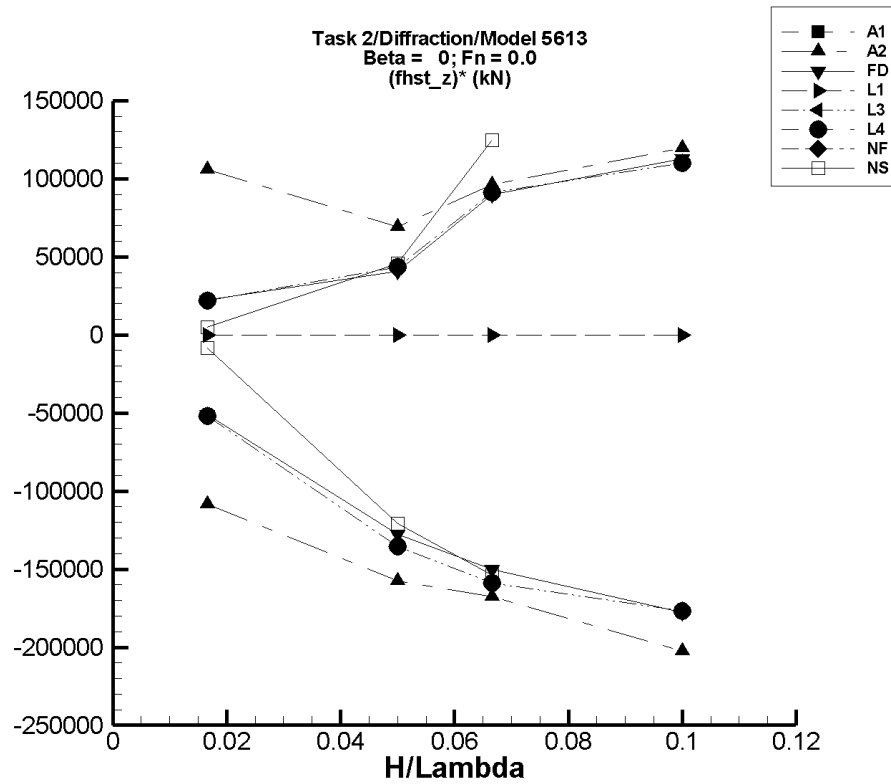


Figure Q-83. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-657. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-658. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.32E+04 | 8.68E+04 | 8.32E+04 | 8.68E+04 | -1.08E+05 | 1.06E+05 |
| 1/20 | 8.13E+04 | 7.28E+04 | 8.48E+04 | 7.34E+04 | 8.47E+04 | -1.58E+05 | 6.90E+04 |
| 1/15 | 7.62E+04 | 6.42E+04 | 8.28E+04 | 6.50E+04 | 8.26E+04 | -1.68E+05 | 9.62E+04 |
| 1/10 | 6.55E+04 | 3.46E+04 | 7.80E+04 | 4.52E+04 | 7.75E+04 | -2.02E+05 | 1.20E+05 |

Table Q-659. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.52E+04 | 8.40E+04 | 8.52E+04 | -5.12E+04 | 2.22E+04 |
| 1/20 | 8.15E+04 | 7.47E+04 | 8.35E+04 | 7.51E+04 | 8.35E+04 | -1.28E+05 | 4.08E+04 |
| 1/15 | 7.62E+04 | 6.55E+04 | 8.24E+04 | 6.62E+04 | 8.22E+04 | -1.50E+05 | 8.97E+04 |
| 1/10 | 6.83E+04 | 5.01E+04 | 8.22E+04 | 5.05E+04 | 7.95E+04 | -1.78E+05 | 1.13E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-660. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-661. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.21E+04 | 2.20E+04 |
| 1/20 | 8.19E+04 | 7.49E+04 | 8.40E+04 | 7.51E+04 | 8.40E+04 | -1.35E+05 | 4.35E+04 |
| 1/15 | 7.66E+04 | 6.58E+04 | 8.27E+04 | 6.59E+04 | 8.26E+04 | -1.59E+05 | 9.13E+04 |
| 1/10 | 6.84E+04 | 5.02E+04 | 8.14E+04 | 5.07E+04 | 7.94E+04 | -1.77E+05 | 1.10E+05 |

Table Q-662. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.21E+04 | 2.20E+04 |
| 1/20 | 8.19E+04 | 7.49E+04 | 8.40E+04 | 7.51E+04 | 8.40E+04 | -1.35E+05 | 4.35E+04 |
| 1/15 | 7.66E+04 | 6.58E+04 | 8.27E+04 | 6.59E+04 | 8.26E+04 | -1.59E+05 | 9.13E+04 |
| 1/10 | 6.84E+04 | 5.02E+04 | 8.14E+04 | 5.07E+04 | 7.94E+04 | -1.77E+05 | 1.10E+05 |

Table Q-663. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-664. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.48E+04 | 8.45E+04 | 8.48E+04 | -8.39E+03 | 4.99E+03 |
| 1/20 | 8.14E+04 | 7.51E+04 | 8.39E+04 | 7.54E+04 | 8.37E+04 | -1.21E+05 | 4.57E+04 |
| 1/15 | 7.46E+04 | 6.33E+04 | 8.31E+04 | 6.44E+04 | 8.30E+04 | -1.54E+05 | 1.25E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

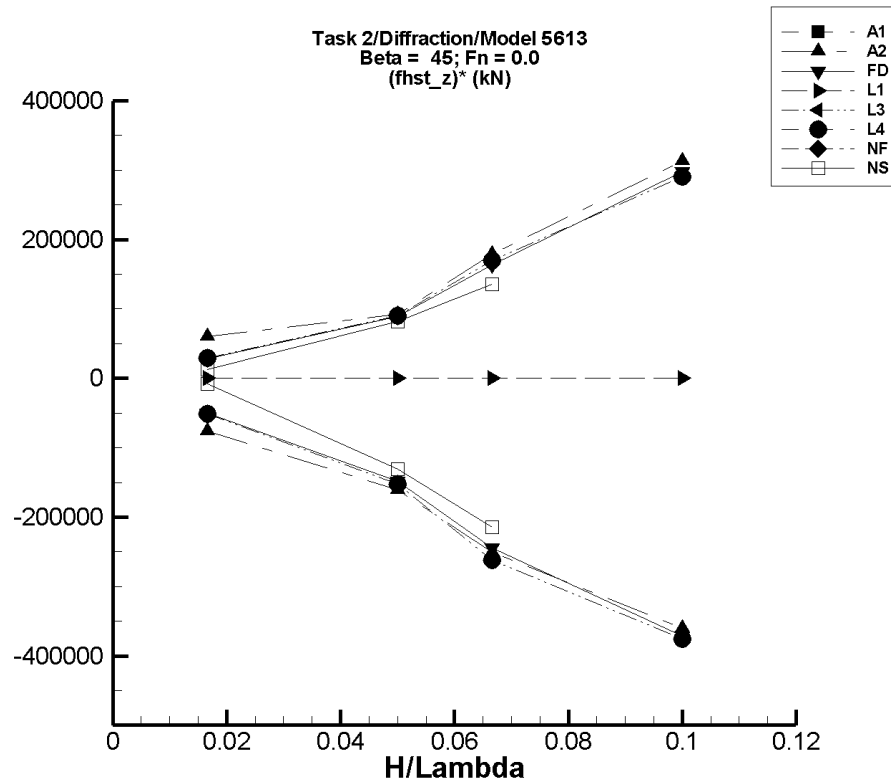


Figure Q-84. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-665. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-666. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.37E+04 | 8.60E+04 | 8.37E+04 | 8.60E+04 | -7.64E+04 | 6.06E+04 |
| 1/20 | 8.13E+04 | 7.29E+04 | 8.64E+04 | 7.32E+04 | 8.59E+04 | -1.61E+05 | 9.24E+04 |
| 1/15 | 7.62E+04 | 5.71E+04 | 8.82E+04 | 5.95E+04 | 8.81E+04 | -2.51E+05 | 1.78E+05 |
| 1/10 | 6.71E+04 | 2.64E+04 | 1.00E+05 | 3.11E+04 | 9.84E+04 | -3.60E+05 | 3.13E+05 |

Table Q-667. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.54E+04 | 8.40E+04 | 8.53E+04 | -5.06E+04 | 2.86E+04 |
| 1/20 | 8.16E+04 | 7.38E+04 | 8.61E+04 | 7.42E+04 | 8.61E+04 | -1.48E+05 | 8.95E+04 |
| 1/15 | 7.63E+04 | 5.75E+04 | 8.73E+04 | 6.00E+04 | 8.71E+04 | -2.44E+05 | 1.63E+05 |
| 1/10 | 6.86E+04 | 3.07E+04 | 9.88E+04 | 3.14E+04 | 9.83E+04 | -3.72E+05 | 2.97E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-668. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -5.62 | -5.62 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.88 | -1.88 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.41 | -1.41 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.938 | -0.938 |

Table Q-669. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.17E+04 | 2.87E+04 |
| 1/20 | 8.19E+04 | 7.41E+04 | 8.65E+04 | 7.43E+04 | 8.64E+04 | -1.53E+05 | 9.02E+04 |
| 1/15 | 7.65E+04 | 5.76E+04 | 8.78E+04 | 5.90E+04 | 8.77E+04 | -2.62E+05 | 1.69E+05 |
| 1/10 | 6.87E+04 | 3.04E+04 | 9.95E+04 | 3.11E+04 | 9.78E+04 | -3.76E+05 | 2.91E+05 |

Table Q-670. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.17E+04 | 2.87E+04 |
| 1/20 | 8.19E+04 | 7.41E+04 | 8.65E+04 | 7.43E+04 | 8.64E+04 | -1.53E+05 | 9.02E+04 |
| 1/15 | 7.65E+04 | 5.76E+04 | 8.78E+04 | 5.90E+04 | 8.77E+04 | -2.62E+05 | 1.69E+05 |
| 1/10 | 6.87E+04 | 3.04E+04 | 9.95E+04 | 3.11E+04 | 9.78E+04 | -3.76E+05 | 2.91E+05 |

Table Q-671. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-672. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.49E+04 | 8.45E+04 | 8.49E+04 | -7.60E+03 | 1.26E+04 |
| 1/20 | 8.18E+04 | 7.48E+04 | 8.58E+04 | 7.52E+04 | 8.59E+04 | -1.31E+05 | 8.19E+04 |
| 1/15 | 7.58E+04 | 6.03E+04 | 8.49E+04 | 6.15E+04 | 8.48E+04 | -2.14E+05 | 1.35E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

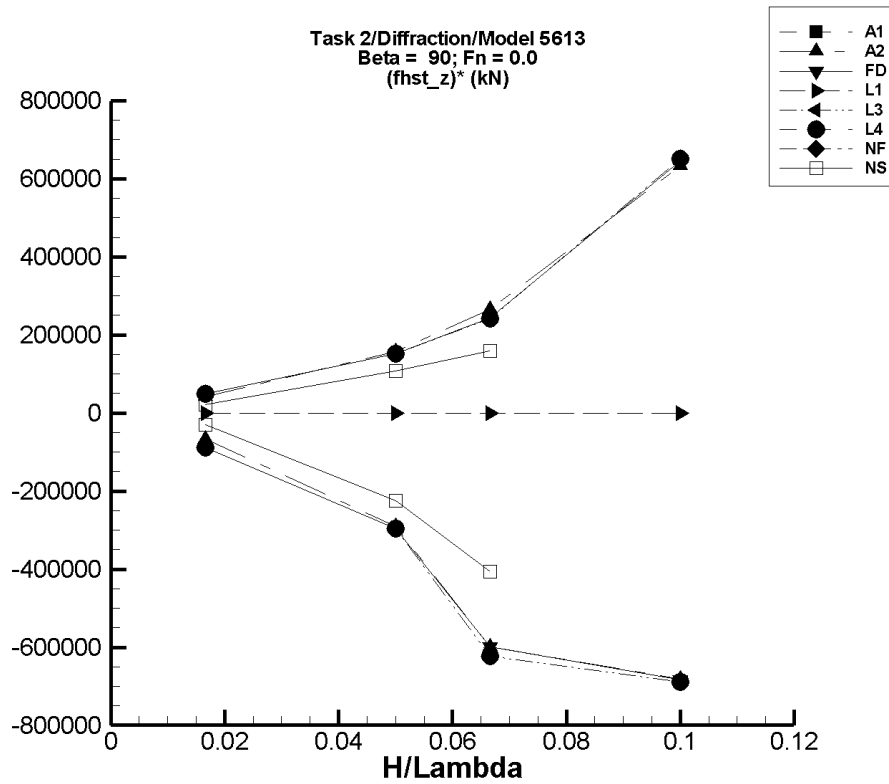


Figure Q-85. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-673. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-674. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.39E+04 | 8.57E+04 | 8.39E+04 | 8.57E+04 | -6.68E+04 | 4.09E+04 |
| 1/20 | 8.12E+04 | 6.58E+04 | 8.92E+04 | 6.67E+04 | 8.91E+04 | -2.91E+05 | 1.57E+05 |
| 1/15 | 7.58E+04 | 3.26E+04 | 9.39E+04 | 3.59E+04 | 9.35E+04 | -5.99E+05 | 2.66E+05 |
| 1/10 | 6.71E+04 | -660. | 1.32E+05 | -1.04E+03 | 1.30E+05 | -6.81E+05 | 6.33E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-675. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.34E+04 | 8.57E+04 | 8.34E+04 | 8.57E+04 | -8.81E+04 | 4.88E+04 |
| 1/20 | 8.14E+04 | 6.63E+04 | 8.90E+04 | 6.66E+04 | 8.90E+04 | -2.96E+05 | 1.52E+05 |
| 1/15 | 7.56E+04 | 3.33E+04 | 9.20E+04 | 3.57E+04 | 9.18E+04 | -5.99E+05 | 2.43E+05 |
| 1/10 | 6.79E+04 | — | 1.34E+05 | -437. | 1.32E+05 | -6.83E+05 | 6.45E+05 |

Table Q-676. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-677. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.36E+04 | 8.60E+04 | 8.36E+04 | 8.60E+04 | -8.94E+04 | 4.98E+04 |
| 1/20 | 8.19E+04 | 6.70E+04 | 8.95E+04 | 6.71E+04 | 8.95E+04 | -2.96E+05 | 1.52E+05 |
| 1/15 | 7.65E+04 | 3.37E+04 | 9.26E+04 | 3.50E+04 | 9.26E+04 | -6.22E+05 | 2.41E+05 |
| 1/10 | 6.88E+04 | — | 1.33E+05 | -90.2 | 1.34E+05 | -6.89E+05 | 6.51E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-678. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.36E+04 | 8.60E+04 | 8.36E+04 | 8.60E+04 | -8.94E+04 | 4.98E+04 |
| 1/20 | 8.19E+04 | 6.70E+04 | 8.95E+04 | 6.71E+04 | 8.95E+04 | -2.96E+05 | 1.52E+05 |
| 1/15 | 7.65E+04 | 3.37E+04 | 9.26E+04 | 3.50E+04 | 9.26E+04 | -6.22E+05 | 2.41E+05 |
| 1/10 | 6.88E+04 | — | 1.33E+05 | -90.2 | 1.34E+05 | -6.89E+05 | 6.51E+05 |

Table Q-679. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-680. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.42E+04 | 8.50E+04 | 8.42E+04 | 8.50E+04 | -3.09E+04 | 2.10E+04 |
| 1/20 | 8.20E+04 | 7.00E+04 | 8.74E+04 | 7.08E+04 | 8.74E+04 | -2.25E+05 | 1.07E+05 |
| 1/15 | 7.67E+04 | 4.86E+04 | 8.73E+04 | 4.96E+04 | 8.73E+04 | -4.06E+05 | 1.59E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

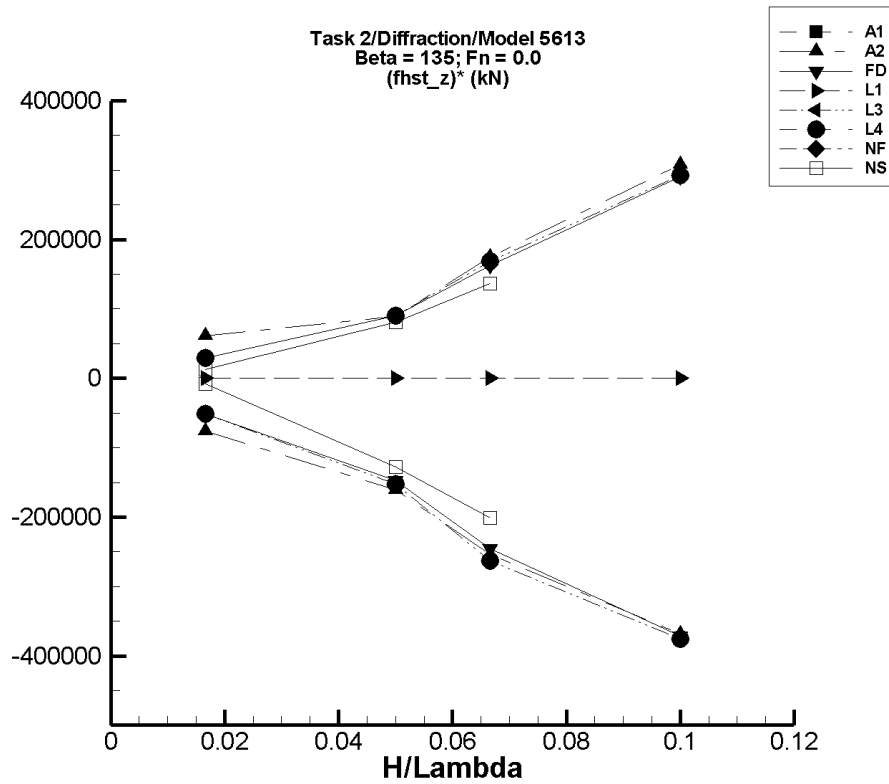


Figure Q-86. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-681. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-682. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.37E+04 | 8.60E+04 | 8.37E+04 | 8.60E+04 | -7.58E+04 | 6.15E+04 |
| 1/20 | 8.13E+04 | 7.29E+04 | 8.60E+04 | 7.33E+04 | 8.58E+04 | -1.61E+05 | 8.94E+04 |
| 1/15 | 7.62E+04 | 5.69E+04 | 8.81E+04 | 5.93E+04 | 8.79E+04 | -2.54E+05 | 1.75E+05 |
| 1/10 | 6.76E+04 | 2.54E+04 | 1.00E+05 | 3.07E+04 | 9.84E+04 | -3.69E+05 | 3.08E+05 |

Table Q-683. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.54E+04 | 8.40E+04 | 8.53E+04 | -5.14E+04 | 2.89E+04 |
| 1/20 | 8.16E+04 | 7.38E+04 | 8.61E+04 | 7.42E+04 | 8.61E+04 | -1.47E+05 | 9.00E+04 |
| 1/15 | 7.63E+04 | 5.75E+04 | 8.73E+04 | 6.00E+04 | 8.72E+04 | -2.45E+05 | 1.62E+05 |
| 1/10 | 6.84E+04 | 3.06E+04 | 9.86E+04 | 3.12E+04 | 9.74E+04 | -3.71E+05 | 2.90E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-684. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-685. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.18E+04 | 2.87E+04 |
| 1/20 | 8.19E+04 | 7.41E+04 | 8.65E+04 | 7.43E+04 | 8.64E+04 | -1.53E+05 | 9.03E+04 |
| 1/15 | 7.65E+04 | 5.76E+04 | 8.78E+04 | 5.89E+04 | 8.77E+04 | -2.63E+05 | 1.68E+05 |
| 1/10 | 6.87E+04 | 3.04E+04 | 9.92E+04 | 3.11E+04 | 9.79E+04 | -3.76E+05 | 2.92E+05 |

Table Q-686. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.18E+04 | 2.87E+04 |
| 1/20 | 8.19E+04 | 7.41E+04 | 8.65E+04 | 7.43E+04 | 8.64E+04 | -1.53E+05 | 9.03E+04 |
| 1/15 | 7.65E+04 | 5.76E+04 | 8.78E+04 | 5.89E+04 | 8.77E+04 | -2.63E+05 | 1.68E+05 |
| 1/10 | 6.87E+04 | 3.04E+04 | 9.92E+04 | 3.11E+04 | 9.79E+04 | -3.76E+05 | 2.92E+05 |

Table Q-687. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-688. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.49E+04 | 8.46E+04 | 8.49E+04 | -7.61E+03 | 1.25E+04 |
| 1/20 | 8.18E+04 | 7.50E+04 | 8.59E+04 | 7.54E+04 | 8.58E+04 | -1.27E+05 | 8.08E+04 |
| 1/15 | 7.58E+04 | 6.09E+04 | 8.49E+04 | 6.24E+04 | 8.49E+04 | -2.01E+05 | 1.36E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

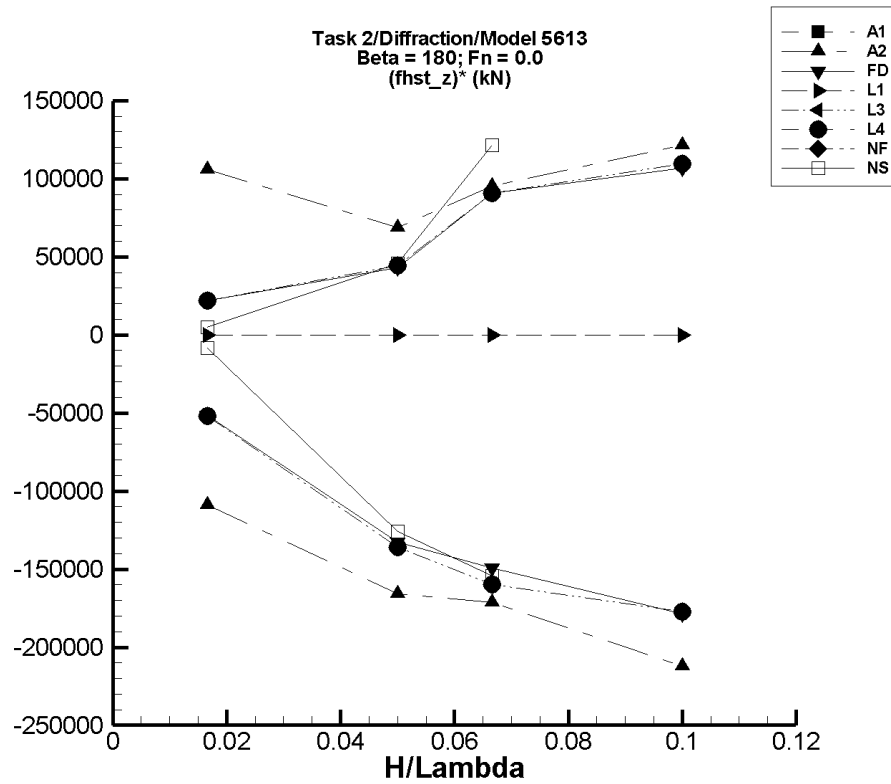


Figure Q-87. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-689. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-690. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.32E+04 | 8.68E+04 | 8.32E+04 | 8.68E+04 | -1.09E+05 | 1.06E+05 |
| 1/20 | 8.13E+04 | 7.28E+04 | 8.48E+04 | 7.30E+04 | 8.47E+04 | -1.66E+05 | 6.88E+04 |
| 1/15 | 7.62E+04 | 6.42E+04 | 8.28E+04 | 6.48E+04 | 8.26E+04 | -1.71E+05 | 9.55E+04 |
| 1/10 | 6.53E+04 | 3.33E+04 | 7.80E+04 | 4.41E+04 | 7.75E+04 | -2.12E+05 | 1.21E+05 |

Table Q-691. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.52E+04 | 8.40E+04 | 8.52E+04 | -5.16E+04 | 2.18E+04 |
| 1/20 | 8.14E+04 | 7.46E+04 | 8.35E+04 | 7.48E+04 | 8.36E+04 | -1.33E+05 | 4.31E+04 |
| 1/15 | 7.62E+04 | 6.56E+04 | 8.24E+04 | 6.62E+04 | 8.22E+04 | -1.49E+05 | 9.06E+04 |
| 1/10 | 6.84E+04 | 5.02E+04 | 8.15E+04 | 5.05E+04 | 7.91E+04 | -1.79E+05 | 1.07E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-692. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-693. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.22E+04 | 2.20E+04 |
| 1/20 | 8.18E+04 | 7.49E+04 | 8.40E+04 | 7.50E+04 | 8.40E+04 | -1.36E+05 | 4.42E+04 |
| 1/15 | 7.66E+04 | 6.58E+04 | 8.27E+04 | 6.59E+04 | 8.26E+04 | -1.60E+05 | 9.07E+04 |
| 1/10 | 6.85E+04 | 5.02E+04 | 8.14E+04 | 5.07E+04 | 7.94E+04 | -1.77E+05 | 1.09E+05 |

Table Q-694. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.22E+04 | 2.20E+04 |
| 1/20 | 8.18E+04 | 7.49E+04 | 8.40E+04 | 7.50E+04 | 8.40E+04 | -1.36E+05 | 4.42E+04 |
| 1/15 | 7.66E+04 | 6.58E+04 | 8.27E+04 | 6.59E+04 | 8.26E+04 | -1.60E+05 | 9.07E+04 |
| 1/10 | 6.85E+04 | 5.02E+04 | 8.14E+04 | 5.07E+04 | 7.94E+04 | -1.77E+05 | 1.09E+05 |

Table Q-695. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-696. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.48E+04 | 8.45E+04 | 8.48E+04 | -8.36E+03 | 5.05E+03 |
| 1/20 | 8.14E+04 | 7.51E+04 | 8.39E+04 | 7.51E+04 | 8.37E+04 | -1.26E+05 | 4.56E+04 |
| 1/15 | 7.47E+04 | 6.33E+04 | 8.31E+04 | 6.44E+04 | 8.28E+04 | -1.54E+05 | 1.22E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

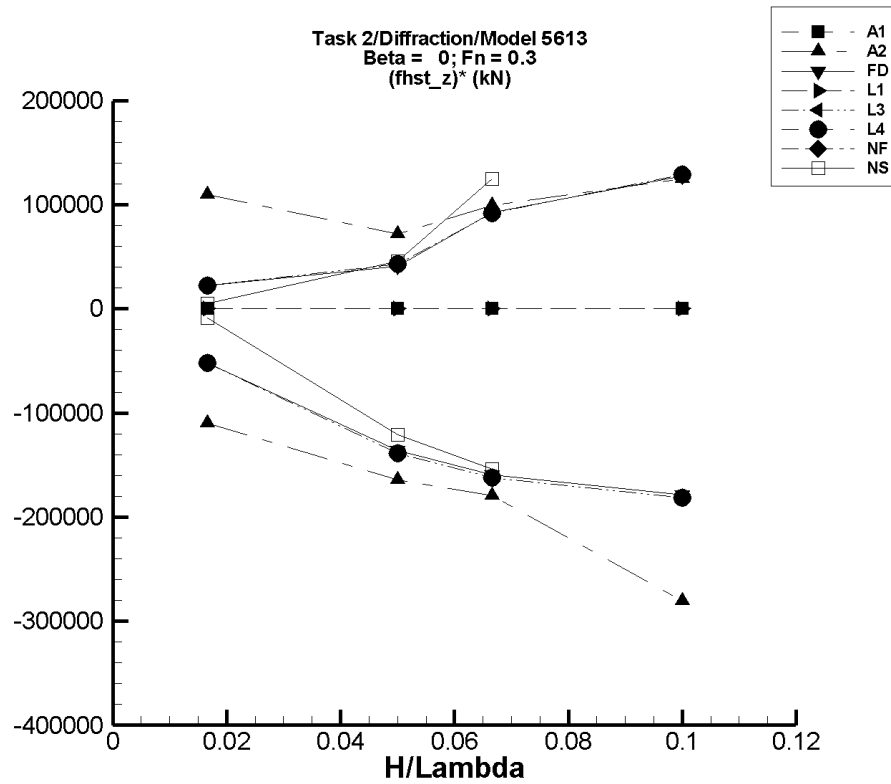


Figure Q-88. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-697. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | -28.1 | -28.1 |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | -9.38 | -9.38 |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | -7.03 | -7.03 |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | -4.69 | -4.69 |

Table Q-698. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.32E+04 | 8.68E+04 | 8.32E+04 | 8.68E+04 | -1.10E+05 | 1.10E+05 |
| 1/20 | 8.12E+04 | 7.28E+04 | 8.48E+04 | 7.30E+04 | 8.48E+04 | -1.64E+05 | 7.15E+04 |
| 1/15 | 7.62E+04 | 6.42E+04 | 8.29E+04 | 6.42E+04 | 8.28E+04 | -1.79E+05 | 9.95E+04 |
| 1/10 | 6.55E+04 | 3.39E+04 | 7.81E+04 | 3.74E+04 | 7.80E+04 | -2.81E+05 | 1.25E+05 |

Table Q-699. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.52E+04 | 8.40E+04 | 8.52E+04 | -5.24E+04 | 2.22E+04 |
| 1/20 | 8.15E+04 | 7.46E+04 | 8.35E+04 | 7.47E+04 | 8.35E+04 | -1.36E+05 | 4.10E+04 |
| 1/15 | 7.62E+04 | 6.55E+04 | 8.24E+04 | 6.56E+04 | 8.24E+04 | -1.59E+05 | 9.26E+04 |
| 1/10 | 6.83E+04 | 5.01E+04 | 8.21E+04 | 5.04E+04 | 8.11E+04 | -1.79E+05 | 1.28E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-700. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 78.3 | 78.3 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 26.1 | 26.1 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 19.6 | 19.6 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 13.0 | 13.0 |

Table Q-701. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.23E+04 | 2.23E+04 |
| 1/20 | 8.19E+04 | 7.49E+04 | 8.40E+04 | 7.50E+04 | 8.40E+04 | -1.39E+05 | 4.29E+04 |
| 1/15 | 7.66E+04 | 6.58E+04 | 8.27E+04 | 6.58E+04 | 8.27E+04 | -1.62E+05 | 9.15E+04 |
| 1/10 | 6.84E+04 | 5.00E+04 | 8.14E+04 | 5.03E+04 | 8.13E+04 | -1.81E+05 | 1.29E+05 |

Table Q-702. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.23E+04 | 2.23E+04 |
| 1/20 | 8.19E+04 | 7.49E+04 | 8.40E+04 | 7.50E+04 | 8.40E+04 | -1.39E+05 | 4.29E+04 |
| 1/15 | 7.66E+04 | 6.58E+04 | 8.27E+04 | 6.58E+04 | 8.27E+04 | -1.62E+05 | 9.15E+04 |
| 1/10 | 6.84E+04 | 5.00E+04 | 8.14E+04 | 5.03E+04 | 8.13E+04 | -1.81E+05 | 1.29E+05 |

Table Q-703. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-704. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.48E+04 | 8.45E+04 | 8.48E+04 | -8.40E+03 | 5.00E+03 |
| 1/20 | 8.14E+04 | 7.51E+04 | 8.39E+04 | 7.54E+04 | 8.37E+04 | -1.21E+05 | 4.58E+04 |
| 1/15 | 7.46E+04 | 6.33E+04 | 8.31E+04 | 6.44E+04 | 8.30E+04 | -1.54E+05 | 1.25E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

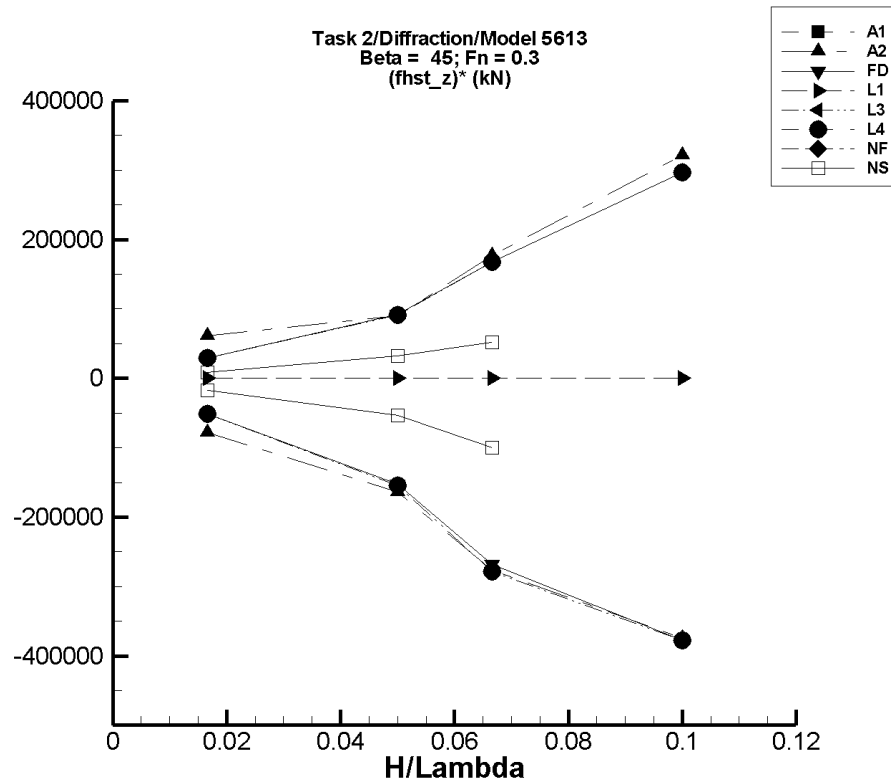


Figure Q-89. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-705. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-706. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.37E+04 | 8.60E+04 | 8.37E+04 | 8.60E+04 | -7.79E+04 | 6.12E+04 |
| 1/20 | 8.13E+04 | 7.29E+04 | 8.60E+04 | 7.31E+04 | 8.58E+04 | -1.64E+05 | 8.96E+04 |
| 1/15 | 7.63E+04 | 5.69E+04 | 8.82E+04 | 5.78E+04 | 8.80E+04 | -2.76E+05 | 1.77E+05 |
| 1/10 | 6.74E+04 | 2.59E+04 | 1.00E+05 | 2.99E+04 | 9.95E+04 | -3.75E+05 | 3.21E+05 |

Table Q-707. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.54E+04 | 8.40E+04 | 8.53E+04 | -5.17E+04 | 2.89E+04 |
| 1/20 | 8.15E+04 | 7.38E+04 | 8.61E+04 | 7.39E+04 | 8.61E+04 | -1.52E+05 | 9.22E+04 |
| 1/15 | 7.61E+04 | 5.75E+04 | 8.73E+04 | 5.83E+04 | 8.73E+04 | -2.68E+05 | 1.67E+05 |
| 1/10 | 6.86E+04 | 3.07E+04 | 9.88E+04 | 3.08E+04 | 9.83E+04 | -3.77E+05 | 2.97E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-708. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 10.3 | 10.3 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 3.44 | 3.44 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 2.58 | 2.58 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 1.72 | 1.72 |

Table Q-709. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.18E+04 | 2.91E+04 |
| 1/20 | 8.19E+04 | 7.41E+04 | 8.65E+04 | 7.42E+04 | 8.64E+04 | -1.55E+05 | 9.08E+04 |
| 1/15 | 7.66E+04 | 5.76E+04 | 8.78E+04 | 5.80E+04 | 8.78E+04 | -2.79E+05 | 1.68E+05 |
| 1/10 | 6.86E+04 | 3.04E+04 | 9.93E+04 | 3.09E+04 | 9.83E+04 | -3.77E+05 | 2.97E+05 |

Table Q-710. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.18E+04 | 2.91E+04 |
| 1/20 | 8.19E+04 | 7.41E+04 | 8.65E+04 | 7.42E+04 | 8.64E+04 | -1.55E+05 | 9.08E+04 |
| 1/15 | 7.66E+04 | 5.76E+04 | 8.78E+04 | 5.80E+04 | 8.78E+04 | -2.79E+05 | 1.68E+05 |
| 1/10 | 6.86E+04 | 3.04E+04 | 9.93E+04 | 3.09E+04 | 9.83E+04 | -3.77E+05 | 2.97E+05 |

Table Q-711. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-712. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.53E+04 | 8.58E+04 | 8.54E+04 | 8.58E+04 | -1.76E+04 | 8.27E+03 |
| 1/20 | 8.36E+04 | 8.05E+04 | 8.52E+04 | 8.10E+04 | 8.52E+04 | -5.31E+04 | 3.21E+04 |
| 1/15 | 8.21E+04 | 7.52E+04 | 8.55E+04 | 7.55E+04 | 8.56E+04 | -9.95E+04 | 5.17E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

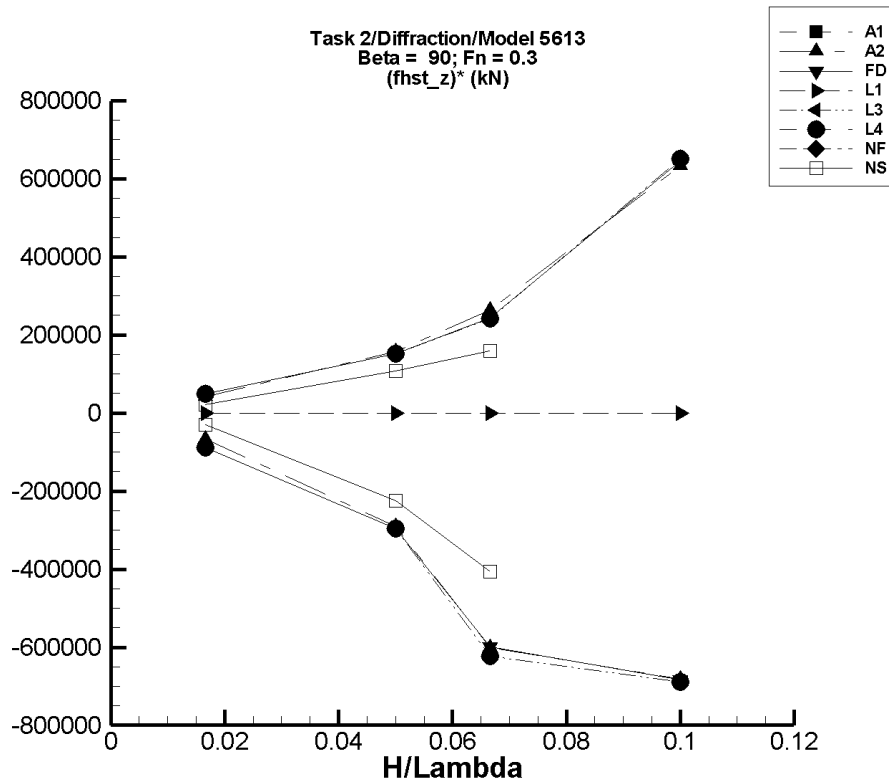


Figure Q-90. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-713. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-714. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.39E+04 | 8.57E+04 | 8.39E+04 | 8.57E+04 | -6.68E+04 | 4.09E+04 |
| 1/20 | 8.12E+04 | 6.58E+04 | 8.92E+04 | 6.67E+04 | 8.91E+04 | -2.91E+05 | 1.57E+05 |
| 1/15 | 7.59E+04 | 3.26E+04 | 9.39E+04 | 3.58E+04 | 9.35E+04 | -6.01E+05 | 2.64E+05 |
| 1/10 | 6.71E+04 | -660. | 1.32E+05 | -1.04E+03 | 1.30E+05 | -6.81E+05 | 6.33E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-715. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.34E+04 | 8.57E+04 | 8.34E+04 | 8.57E+04 | -8.81E+04 | 4.88E+04 |
| 1/20 | 8.14E+04 | 6.63E+04 | 8.90E+04 | 6.66E+04 | 8.90E+04 | -2.96E+05 | 1.52E+05 |
| 1/15 | 7.56E+04 | 3.33E+04 | 9.20E+04 | 3.57E+04 | 9.18E+04 | -5.99E+05 | 2.43E+05 |
| 1/10 | 6.79E+04 | — | 1.34E+05 | -437. | 1.32E+05 | -6.83E+05 | 6.45E+05 |

Table Q-716. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-717. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ Mean (kN) | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.36E+04 | 8.60E+04 | 8.36E+04 | 8.60E+04 | -8.94E+04 | 4.98E+04 |
| 1/20 | 8.19E+04 | 6.70E+04 | 8.95E+04 | 6.71E+04 | 8.95E+04 | -2.96E+05 | 1.52E+05 |
| 1/15 | 7.65E+04 | 3.37E+04 | 9.26E+04 | 3.50E+04 | 9.26E+04 | -6.22E+05 | 2.41E+05 |
| 1/10 | 6.88E+04 | — | 1.33E+05 | -90.3 | 1.34E+05 | -6.89E+05 | 6.51E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-718. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.36E+04 | 8.60E+04 | 8.36E+04 | 8.60E+04 | -8.94E+04 | 4.98E+04 |
| 1/20 | 8.19E+04 | 6.70E+04 | 8.95E+04 | 6.71E+04 | 8.95E+04 | -2.96E+05 | 1.52E+05 |
| 1/15 | 7.65E+04 | 3.37E+04 | 9.26E+04 | 3.50E+04 | 9.26E+04 | -6.22E+05 | 2.41E+05 |
| 1/10 | 6.88E+04 | — | 1.33E+05 | -90.3 | 1.34E+05 | -6.89E+05 | 6.51E+05 |

Table Q-719. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-720. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.42E+04 | 8.50E+04 | 8.42E+04 | 8.50E+04 | -3.09E+04 | 2.10E+04 |
| 1/20 | 8.20E+04 | 7.00E+04 | 8.74E+04 | 7.08E+04 | 8.74E+04 | -2.25E+05 | 1.07E+05 |
| 1/15 | 7.67E+04 | 4.86E+04 | 8.73E+04 | 4.96E+04 | 8.73E+04 | -4.06E+05 | 1.59E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

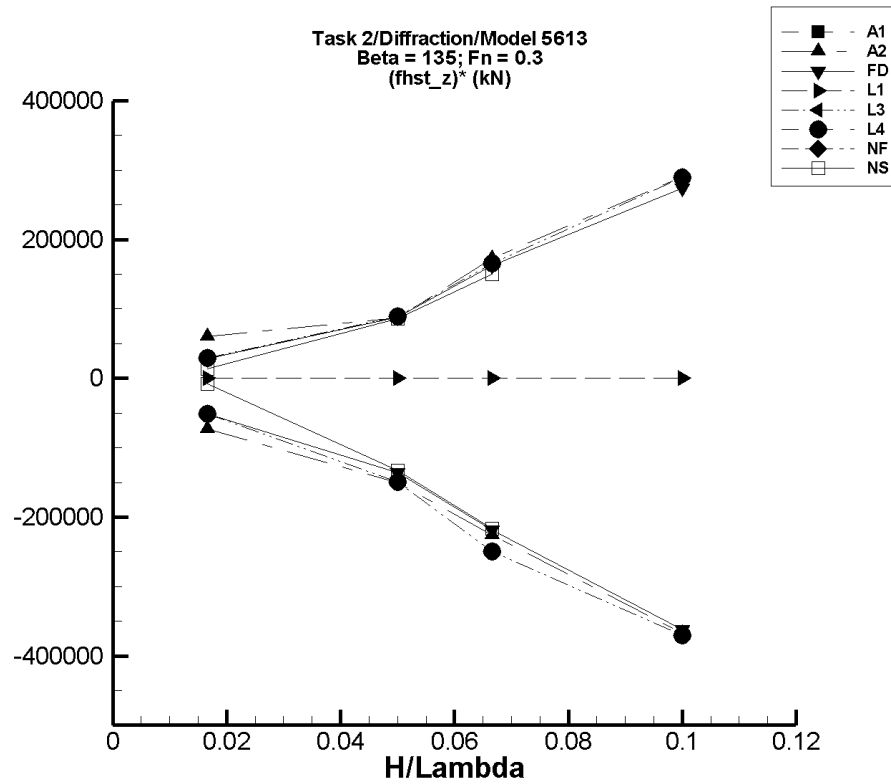


Figure Q-91. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-721. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-722. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.37E+04 | 8.60E+04 | 8.38E+04 | 8.60E+04 | -7.35E+04 | 6.05E+04 |
| 1/20 | 8.13E+04 | 7.30E+04 | 8.59E+04 | 7.38E+04 | 8.57E+04 | -1.51E+05 | 8.73E+04 |
| 1/15 | 7.62E+04 | 5.70E+04 | 8.81E+04 | 6.12E+04 | 8.77E+04 | -2.26E+05 | 1.72E+05 |
| 1/10 | 6.77E+04 | 2.70E+04 | 9.98E+04 | 3.10E+04 | 9.67E+04 | -3.67E+05 | 2.90E+05 |

Table Q-723. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.54E+04 | 8.40E+04 | 8.53E+04 | -5.16E+04 | 2.77E+04 |
| 1/20 | 8.16E+04 | 7.38E+04 | 8.61E+04 | 7.48E+04 | 8.60E+04 | -1.36E+05 | 8.81E+04 |
| 1/15 | 7.62E+04 | 5.75E+04 | 8.73E+04 | 6.16E+04 | 8.70E+04 | -2.19E+05 | 1.62E+05 |
| 1/10 | 6.84E+04 | 3.07E+04 | 9.86E+04 | 3.22E+04 | 9.58E+04 | -3.62E+05 | 2.74E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-724. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-725. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.18E+04 | 2.87E+04 |
| 1/20 | 8.19E+04 | 7.42E+04 | 8.65E+04 | 7.44E+04 | 8.64E+04 | -1.50E+05 | 8.92E+04 |
| 1/15 | 7.66E+04 | 5.78E+04 | 8.78E+04 | 6.00E+04 | 8.76E+04 | -2.50E+05 | 1.66E+05 |
| 1/10 | 6.84E+04 | 3.03E+04 | 9.92E+04 | 3.14E+04 | 9.73E+04 | -3.70E+05 | 2.89E+05 |

Table Q-726. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.56E+04 | 8.43E+04 | 8.56E+04 | -5.18E+04 | 2.87E+04 |
| 1/20 | 8.19E+04 | 7.42E+04 | 8.65E+04 | 7.44E+04 | 8.64E+04 | -1.50E+05 | 8.92E+04 |
| 1/15 | 7.66E+04 | 5.78E+04 | 8.78E+04 | 6.00E+04 | 8.76E+04 | -2.50E+05 | 1.66E+05 |
| 1/10 | 6.84E+04 | 3.03E+04 | 9.92E+04 | 3.14E+04 | 9.73E+04 | -3.70E+05 | 2.89E+05 |

Table Q-727. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-728. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.49E+04 | 8.45E+04 | 8.49E+04 | -8.52E+03 | 1.34E+04 |
| 1/20 | 8.16E+04 | 7.45E+04 | 8.59E+04 | 7.50E+04 | 8.59E+04 | -1.33E+05 | 8.61E+04 |
| 1/15 | 7.51E+04 | 5.90E+04 | 8.50E+04 | 6.06E+04 | 8.50E+04 | -2.17E+05 | 1.49E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

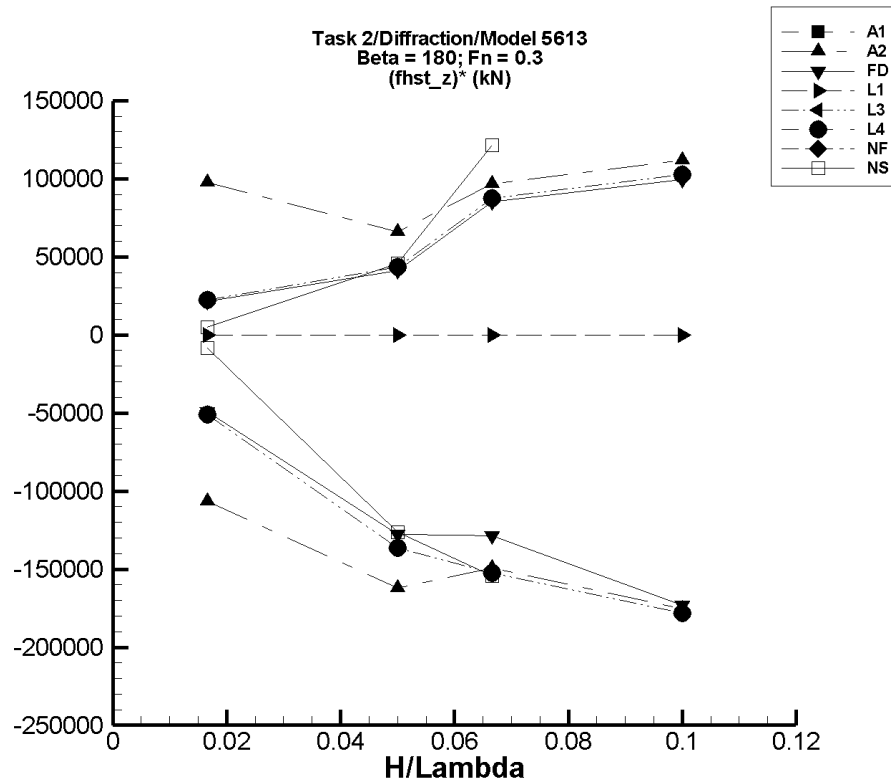


Figure Q-92. Minimum and maximum of filtered $(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-729. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/20 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/15 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |
| 1/10 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | 8.59E+04 | — | — |

Table Q-730. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.50E+04 | 8.32E+04 | 8.68E+04 | 8.32E+04 | 8.66E+04 | -1.07E+05 | 9.76E+04 |
| 1/20 | 8.12E+04 | 7.30E+04 | 8.48E+04 | 7.31E+04 | 8.45E+04 | -1.62E+05 | 6.58E+04 |
| 1/15 | 7.62E+04 | 6.42E+04 | 8.28E+04 | 6.62E+04 | 8.26E+04 | -1.49E+05 | 9.67E+04 |
| 1/10 | 6.57E+04 | 3.61E+04 | 7.79E+04 | 4.81E+04 | 7.68E+04 | -1.75E+05 | 1.12E+05 |

Table Q-731. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.49E+04 | 8.40E+04 | 8.52E+04 | 8.41E+04 | 8.52E+04 | -4.91E+04 | 2.12E+04 |
| 1/20 | 8.14E+04 | 7.47E+04 | 8.35E+04 | 7.50E+04 | 8.35E+04 | -1.28E+05 | 4.12E+04 |
| 1/15 | 7.62E+04 | 6.56E+04 | 8.24E+04 | 6.76E+04 | 8.18E+04 | -1.29E+05 | 8.50E+04 |
| 1/10 | 6.84E+04 | 5.03E+04 | 8.12E+04 | 5.11E+04 | 7.83E+04 | -1.73E+05 | 9.95E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-732. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -4.69 | -4.69 |
| 1/20 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.56 | -1.56 |
| 1/15 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -1.17 | -1.17 |
| 1/10 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | 8.56E+04 | -0.781 | -0.781 |

Table Q-733. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.10E+04 | 2.22E+04 |
| 1/20 | 8.19E+04 | 7.49E+04 | 8.40E+04 | 7.50E+04 | 8.40E+04 | -1.36E+05 | 4.33E+04 |
| 1/15 | 7.67E+04 | 6.58E+04 | 8.27E+04 | 6.65E+04 | 8.25E+04 | -1.53E+05 | 8.74E+04 |
| 1/10 | 6.86E+04 | 5.01E+04 | 8.14E+04 | 5.07E+04 | 7.88E+04 | -1.78E+05 | 1.03E+05 |

Table Q-734. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.51E+04 | 8.43E+04 | 8.55E+04 | 8.43E+04 | 8.55E+04 | -5.10E+04 | 2.22E+04 |
| 1/20 | 8.19E+04 | 7.49E+04 | 8.40E+04 | 7.50E+04 | 8.40E+04 | -1.36E+05 | 4.33E+04 |
| 1/15 | 7.67E+04 | 6.58E+04 | 8.27E+04 | 6.65E+04 | 8.25E+04 | -1.53E+05 | 8.74E+04 |
| 1/10 | 6.86E+04 | 5.01E+04 | 8.14E+04 | 5.07E+04 | 7.88E+04 | -1.78E+05 | 1.03E+05 |

Table Q-735. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-736. Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{hst}} \rangle$ | Unfiltered F_z^{hst} | | Filtered F_z^{hst} | | Filtered $(F_z^{\text{hst}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.47E+04 | 8.45E+04 | 8.48E+04 | 8.45E+04 | 8.48E+04 | -8.36E+03 | 5.06E+03 |
| 1/20 | 8.14E+04 | 7.51E+04 | 8.39E+04 | 7.51E+04 | 8.37E+04 | -1.26E+05 | 4.56E+04 |
| 1/15 | 7.47E+04 | 6.33E+04 | 8.31E+04 | 6.44E+04 | 8.28E+04 | -1.54E+05 | 1.22E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

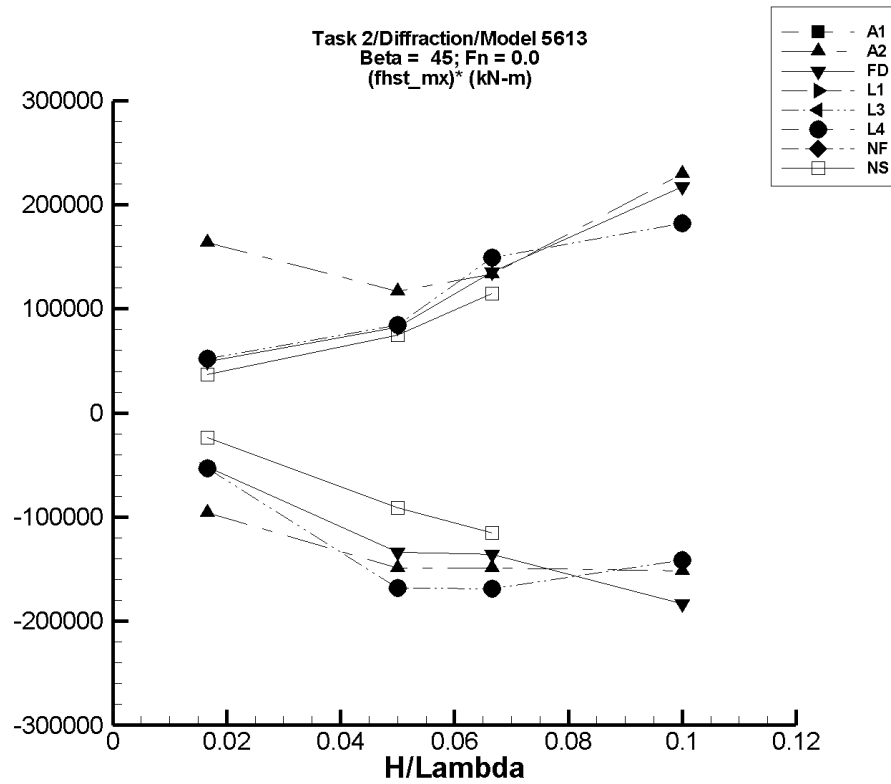


Figure Q-93. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-737. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-738. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 30.2 | -1.64E+03 | 2.87E+03 | -1.57E+03 | 2.76E+03 | -9.60E+04 | 1.64E+05 |
| 1/20 | -46.7 | -1.61E+04 | 1.52E+04 | -7.49E+03 | 5.81E+03 | -1.49E+05 | 1.17E+05 |
| 1/15 | -155. | -1.48E+04 | 1.40E+04 | -1.01E+04 | 8.74E+03 | -1.49E+05 | 1.33E+05 |
| 1/10 | 653. | -2.15E+04 | 2.97E+04 | -1.45E+04 | 2.37E+04 | -1.52E+05 | 2.30E+05 |

Table Q-739. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 15.4 | -1.07E+03 | 860. | -848. | 838. | -5.18E+04 | 4.94E+04 |
| 1/20 | -6.36 | -9.46E+03 | 4.37E+03 | -6.71E+03 | 4.10E+03 | -1.34E+05 | 8.22E+04 |
| 1/15 | -157. | -1.23E+04 | 1.01E+04 | -9.21E+03 | 8.86E+03 | -1.36E+05 | 1.35E+05 |
| 1/10 | 387. | -2.11E+04 | 2.51E+04 | -1.79E+04 | 2.21E+04 | -1.83E+05 | 2.18E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-740. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-741. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.17 | -963. | 870. | -884. | 864. | -5.30E+04 | 5.19E+04 |
| 1/20 | -117. | -1.00E+04 | 4.27E+03 | -8.52E+03 | 4.12E+03 | -1.68E+05 | 8.47E+04 |
| 1/15 | 49.2 | -1.27E+04 | 1.03E+04 | -1.12E+04 | 9.99E+03 | -1.69E+05 | 1.49E+05 |
| 1/10 | 359. | -1.50E+04 | 1.97E+04 | -1.38E+04 | 1.86E+04 | -1.41E+05 | 1.82E+05 |

Table Q-742. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.17 | -963. | 870. | -884. | 864. | -5.30E+04 | 5.19E+04 |
| 1/20 | -117. | -1.00E+04 | 4.27E+03 | -8.52E+03 | 4.12E+03 | -1.68E+05 | 8.47E+04 |
| 1/15 | 49.2 | -1.27E+04 | 1.03E+04 | -1.12E+04 | 9.99E+03 | -1.69E+05 | 1.49E+05 |
| 1/10 | 359. | -1.50E+04 | 1.97E+04 | -1.38E+04 | 1.86E+04 | -1.41E+05 | 1.82E+05 |

Table Q-743. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-744. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 5.69 | -397. | 644. | -388. | 622. | -2.36E+04 | 3.70E+04 |
| 1/20 | 274. | -5.87E+03 | 5.36E+03 | -4.30E+03 | 4.01E+03 | -9.14E+04 | 7.47E+04 |
| 1/15 | 511. | -9.79E+03 | 8.24E+03 | -7.15E+03 | 8.15E+03 | -1.15E+05 | 1.15E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

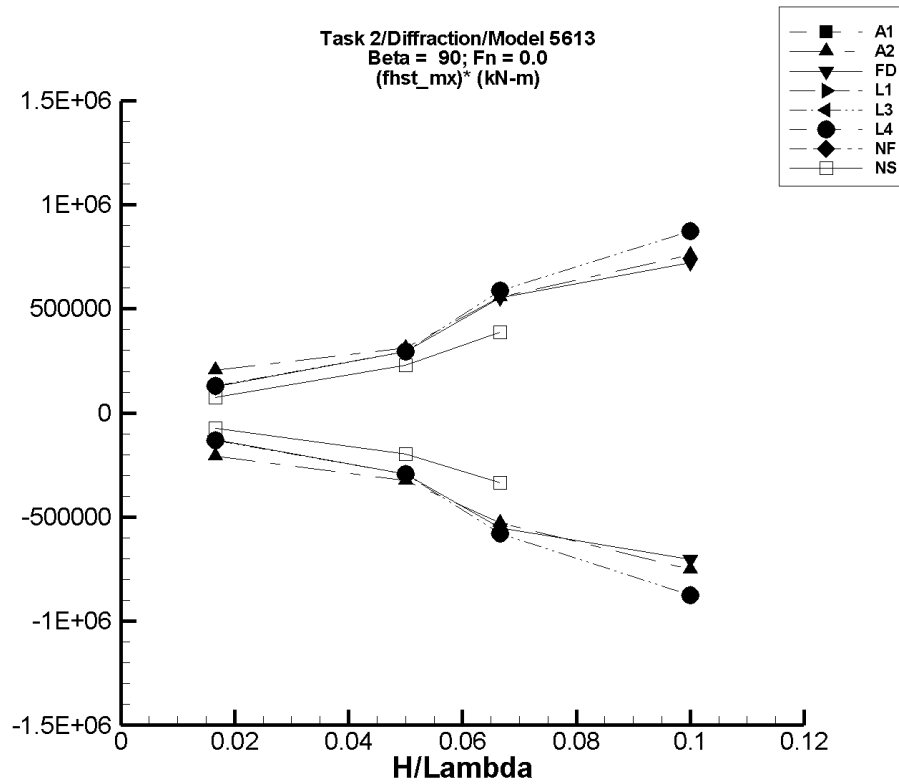


Figure Q-94. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-745. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-746. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 28.6 | -3.97E+03 | 3.94E+03 | -3.41E+03 | 3.42E+03 | -2.06E+05 | 2.04E+05 |
| 1/20 | -139. | -2.74E+04 | 2.63E+04 | -1.63E+04 | 1.55E+04 | -3.24E+05 | 3.13E+05 |
| 1/15 | 349. | -4.04E+04 | 4.05E+04 | -3.48E+04 | 3.75E+04 | -5.27E+05 | 5.57E+05 |
| 1/10 | -156. | -9.96E+04 | 1.01E+05 | -7.52E+04 | 7.57E+04 | -7.51E+05 | 7.58E+05 |

Table Q-747. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 23.0 | -2.23E+03 | 2.23E+03 | -2.13E+03 | 2.13E+03 | -1.29E+05 | 1.26E+05 |
| 1/20 | 12.7 | -1.53E+04 | 1.53E+04 | -1.47E+04 | 1.47E+04 | -2.95E+05 | 2.94E+05 |
| 1/15 | 66.6 | -3.96E+04 | 3.96E+04 | -3.68E+04 | 3.70E+04 | -5.53E+05 | 5.54E+05 |
| 1/10 | -770. | -9.20E+04 | 9.37E+04 | -7.11E+04 | 7.14E+04 | -7.03E+05 | 7.21E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-748. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-749. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.55 | -2.21E+03 | 2.21E+03 | -2.18E+03 | 2.18E+03 | -1.31E+05 | 1.30E+05 |
| 1/20 | -80.2 | -1.50E+04 | 1.50E+04 | -1.47E+04 | 1.47E+04 | -2.93E+05 | 2.96E+05 |
| 1/15 | -289. | -3.99E+04 | 3.99E+04 | -3.89E+04 | 3.89E+04 | -5.79E+05 | 5.87E+05 |
| 1/10 | 226. | -9.49E+04 | 9.49E+04 | -8.73E+04 | 8.75E+04 | -8.76E+05 | 8.73E+05 |

Table Q-750. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.55 | -2.21E+03 | 2.21E+03 | -2.18E+03 | 2.18E+03 | -1.31E+05 | 1.30E+05 |
| 1/20 | -80.2 | -1.50E+04 | 1.50E+04 | -1.47E+04 | 1.47E+04 | -2.93E+05 | 2.96E+05 |
| 1/15 | -289. | -3.99E+04 | 3.99E+04 | -3.89E+04 | 3.89E+04 | -5.79E+05 | 5.87E+05 |
| 1/10 | 226. | -9.49E+04 | 9.49E+04 | -8.73E+04 | 8.75E+04 | -8.76E+05 | 8.73E+05 |

Table Q-751. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-752. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.86 | -1.27E+03 | 1.28E+03 | -1.24E+03 | 1.25E+03 | -7.39E+04 | 7.52E+04 |
| 1/20 | 333. | -1.05E+04 | 1.23E+04 | -9.47E+03 | 1.18E+04 | -1.96E+05 | 2.29E+05 |
| 1/15 | 579. | -2.35E+04 | 2.78E+04 | -2.18E+04 | 2.65E+04 | -3.36E+05 | 3.89E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

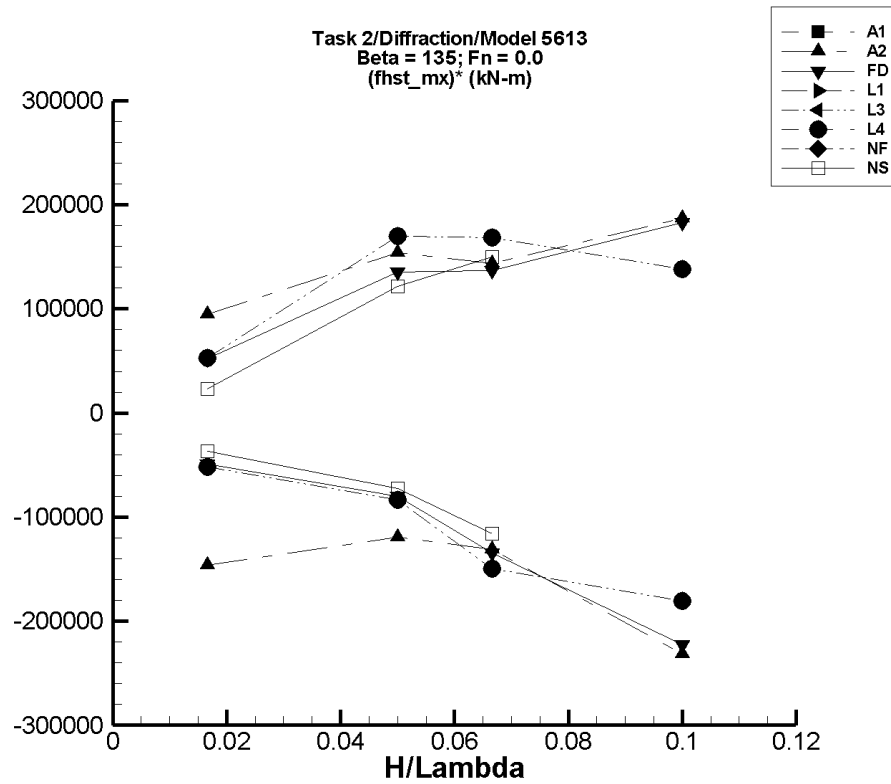


Figure Q-95. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-753. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-754. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.90 | -2.86E+03 | 1.65E+03 | -2.44E+03 | 1.57E+03 | -1.46E+05 | 9.46E+04 |
| 1/20 | 224. | -6.31E+03 | 1.43E+04 | -5.74E+03 | 7.92E+03 | -1.19E+05 | 1.54E+05 |
| 1/15 | 395. | -1.07E+04 | 1.77E+04 | -8.34E+03 | 9.98E+03 | -1.31E+05 | 1.44E+05 |
| 1/10 | -349. | -2.59E+04 | 2.02E+04 | -2.35E+04 | 1.84E+04 | -2.32E+05 | 1.87E+05 |

Table Q-755. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -15.8 | -862. | 1.06E+03 | -839. | 848. | -4.94E+04 | 5.18E+04 |
| 1/20 | -80.5 | -4.35E+03 | 9.46E+03 | -4.10E+03 | 6.68E+03 | -8.04E+04 | 1.35E+05 |
| 1/15 | 86.7 | -1.01E+04 | 1.22E+04 | -8.88E+03 | 9.18E+03 | -1.34E+05 | 1.36E+05 |
| 1/10 | -20.7 | -2.49E+04 | 2.17E+04 | -2.23E+04 | 1.83E+04 | -2.23E+05 | 1.83E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-756. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-757. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.13 | -870. | 963. | -865. | 886. | -5.20E+04 | 5.30E+04 |
| 1/20 | 43.6 | -4.27E+03 | 1.00E+04 | -4.12E+03 | 8.52E+03 | -8.32E+04 | 1.70E+05 |
| 1/15 | -28.8 | -1.03E+04 | 1.27E+04 | -9.99E+03 | 1.12E+04 | -1.49E+05 | 1.68E+05 |
| 1/10 | -116. | -1.98E+04 | 1.50E+04 | -1.82E+04 | 1.37E+04 | -1.81E+05 | 1.38E+05 |

Table Q-758. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.13 | -870. | 963. | -865. | 886. | -5.20E+04 | 5.30E+04 |
| 1/20 | 43.6 | -4.27E+03 | 1.00E+04 | -4.12E+03 | 8.52E+03 | -8.32E+04 | 1.70E+05 |
| 1/15 | -28.8 | -1.03E+04 | 1.27E+04 | -9.99E+03 | 1.12E+04 | -1.49E+05 | 1.68E+05 |
| 1/10 | -116. | -1.98E+04 | 1.50E+04 | -1.82E+04 | 1.37E+04 | -1.81E+05 | 1.38E+05 |

Table Q-759. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-760. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.02 | -639. | 398. | -618. | 388. | -3.69E+04 | 2.35E+04 |
| 1/20 | 269. | -4.19E+03 | 8.36E+03 | -3.35E+03 | 6.34E+03 | -7.25E+04 | 1.21E+05 |
| 1/15 | 558. | -7.93E+03 | 1.30E+04 | -7.15E+03 | 1.06E+04 | -1.16E+05 | 1.50E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

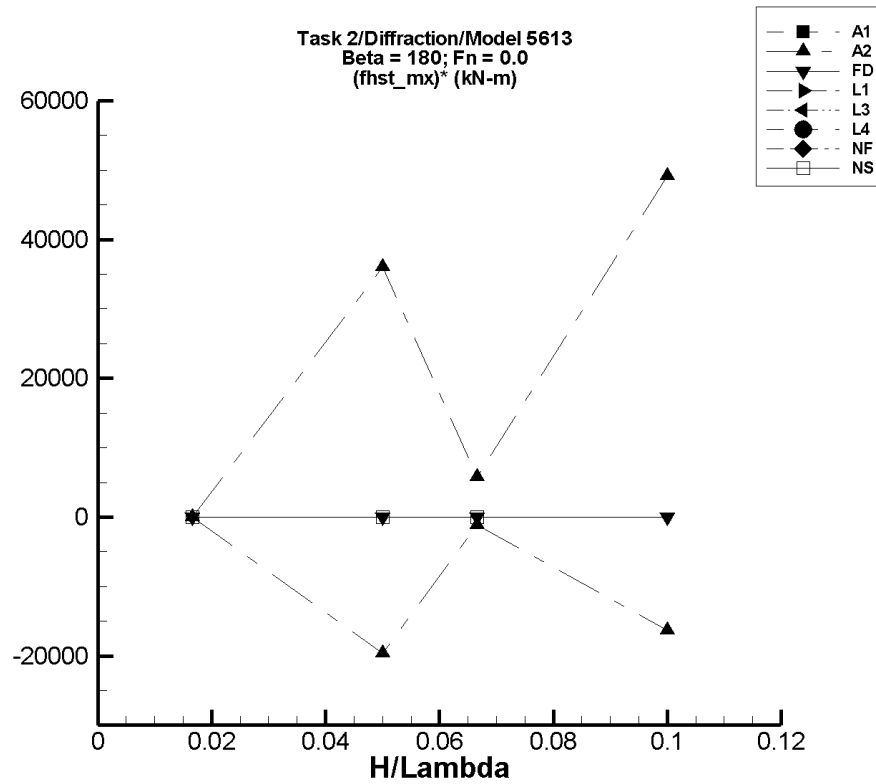


Figure Q-96. Minimum and maximum of filtered $(M_x^{hst} - \langle M_x^{hst} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-761. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-762. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.11E-05 | -9.98E-04 | 1.74E-03 | -2.90E-04 | 1.01E-03 | -2.22E-02 | 5.58E-02 |
| 1/20 | 202. | -5.57E+03 | 1.50E+04 | -778. | 2.00E+03 | -1.96E+04 | 3.60E+04 |
| 1/15 | 39.3 | -7.36E-03 | 3.24E+03 | -36.7 | 428. | -1.14E+03 | 5.82E+03 |
| 1/10 | 395. | -7.45E+03 | 4.01E+04 | -1.24E+03 | 5.31E+03 | -1.63E+04 | 4.92E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-763. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.18E-04 | -6.57E-04 | 6.56E-04 | -4.99E-05 | 2.98E-04 | -1.01E-02 | 1.08E-02 |
| 1/20 | -1.07E-02 | -5.48E-02 | 7.47E-03 | -4.97E-02 | 1.57E-03 | -0.780 | 0.245 |
| 1/15 | -1.09E-02 | -5.03E-02 | 6.41E-03 | -3.15E-02 | 6.79E-03 | -0.309 | 0.265 |
| 1/10 | -4.73E-03 | -8.60E-02 | 8.79E-02 | -1.81E-02 | 1.37E-02 | -0.133 | 0.184 |

Table Q-764. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-765. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-766. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-767. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-768. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.55E-04 | -1.01E-02 | 7.61E-03 | -3.45E-03 | 4.26E-03 | -0.192 | 0.271 |
| 1/20 | 3.06E-04 | -9.62E-03 | 1.06E-02 | -3.50E-03 | 3.64E-03 | -7.61E-02 | 6.66E-02 |
| 1/15 | -4.30E-04 | -1.46E-02 | 1.64E-02 | -6.31E-03 | 6.80E-03 | -8.81E-02 | 0.108 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

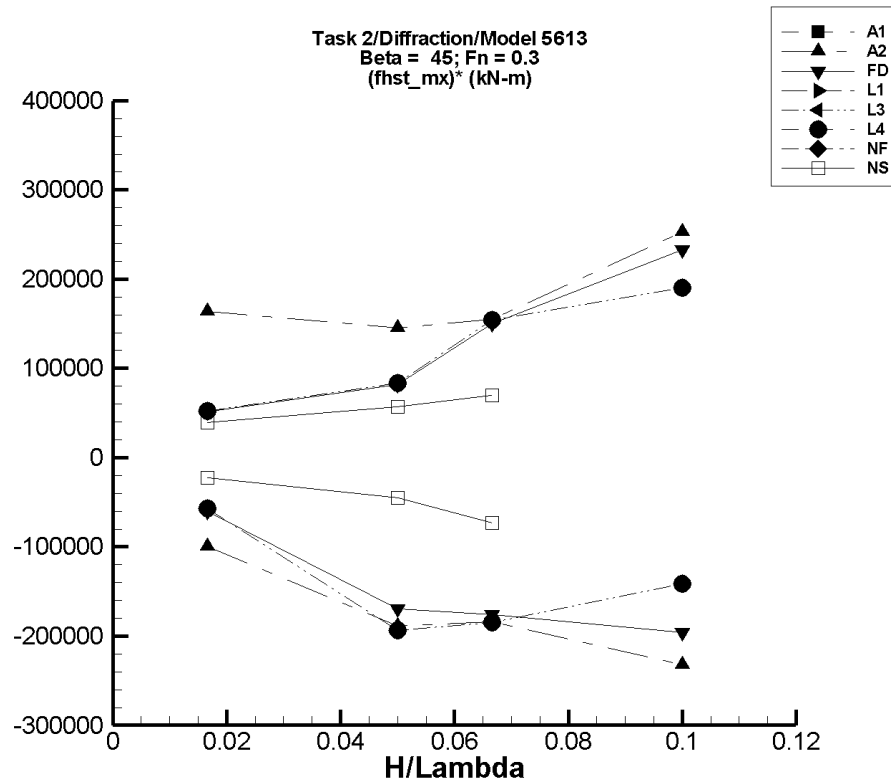


Figure Q-97. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-769. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-770. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 42.2 | -1.65E+03 | 2.87E+03 | -1.62E+03 | 2.77E+03 | -9.96E+04 | 1.64E+05 |
| 1/20 | 151. | -1.61E+04 | 1.39E+04 | -9.28E+03 | 7.42E+03 | -1.89E+05 | 1.45E+05 |
| 1/15 | -12.2 | -1.30E+04 | 1.14E+04 | -1.23E+04 | 1.03E+04 | -1.84E+05 | 1.55E+05 |
| 1/10 | 174. | -5.75E+04 | 2.72E+04 | -2.31E+04 | 2.54E+04 | -2.32E+05 | 2.53E+05 |

Table Q-771. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 0.795 | -1.07E+03 | 858. | -1.00E+03 | 850. | -6.03E+04 | 5.10E+04 |
| 1/20 | -9.93 | -9.44E+03 | 4.36E+03 | -8.49E+03 | 4.09E+03 | -1.70E+05 | 8.20E+04 |
| 1/15 | 4.44 | -1.23E+04 | 1.01E+04 | -1.17E+04 | 1.00E+04 | -1.76E+05 | 1.50E+05 |
| 1/10 | 408. | -2.16E+04 | 2.51E+04 | -1.92E+04 | 2.37E+04 | -1.96E+05 | 2.33E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-772. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-773. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.19 | -962. | 870. | -947. | 867. | -5.71E+04 | 5.18E+04 |
| 1/20 | 33.8 | -1.00E+04 | 4.27E+03 | -9.64E+03 | 4.20E+03 | -1.94E+05 | 8.34E+04 |
| 1/15 | -34.8 | -1.27E+04 | 1.04E+04 | -1.23E+04 | 1.02E+04 | -1.84E+05 | 1.54E+05 |
| 1/10 | 114. | -1.52E+04 | 1.98E+04 | -1.40E+04 | 1.92E+04 | -1.42E+05 | 1.91E+05 |

Table Q-774. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.19 | -962. | 870. | -947. | 867. | -5.71E+04 | 5.18E+04 |
| 1/20 | 33.8 | -1.00E+04 | 4.27E+03 | -9.64E+03 | 4.20E+03 | -1.94E+05 | 8.34E+04 |
| 1/15 | -34.8 | -1.27E+04 | 1.04E+04 | -1.23E+04 | 1.02E+04 | -1.84E+05 | 1.54E+05 |
| 1/10 | 114. | -1.52E+04 | 1.98E+04 | -1.40E+04 | 1.92E+04 | -1.42E+05 | 1.91E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-775. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-776. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.56 | -414. | 701. | -370. | 655. | -2.24E+04 | 3.91E+04 |
| 1/20 | 111. | -2.80E+03 | 3.60E+03 | -2.13E+03 | 2.95E+03 | -4.48E+04 | 5.68E+04 |
| 1/15 | 320. | -5.80E+03 | 6.11E+03 | -4.55E+03 | 4.95E+03 | -7.30E+04 | 6.95E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

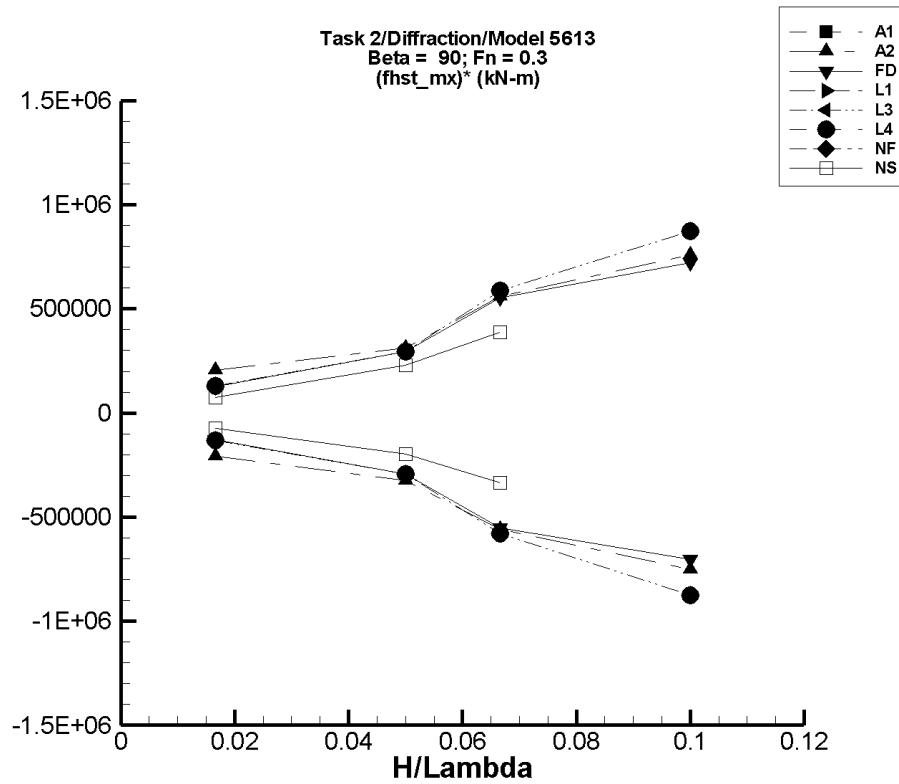


Figure Q-98. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-777. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-778. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 28.6 | -3.97E+03 | 3.94E+03 | -3.41E+03 | 3.42E+03 | -2.06E+05 | 2.04E+05 |
| 1/20 | -139. | -2.74E+04 | 2.63E+04 | -1.63E+04 | 1.55E+04 | -3.24E+05 | 3.13E+05 |
| 1/15 | 142. | -4.04E+04 | 4.05E+04 | -3.71E+04 | 3.75E+04 | -5.58E+05 | 5.60E+05 |
| 1/10 | -156. | -9.96E+04 | 1.01E+05 | -7.52E+04 | 7.57E+04 | -7.51E+05 | 7.58E+05 |

Table Q-779. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 23.0 | -2.23E+03 | 2.23E+03 | -2.13E+03 | 2.13E+03 | -1.29E+05 | 1.26E+05 |
| 1/20 | 12.7 | -1.53E+04 | 1.53E+04 | -1.47E+04 | 1.47E+04 | -2.95E+05 | 2.94E+05 |
| 1/15 | 66.5 | -3.96E+04 | 3.96E+04 | -3.68E+04 | 3.70E+04 | -5.53E+05 | 5.54E+05 |
| 1/10 | -770. | -9.20E+04 | 9.37E+04 | -7.11E+04 | 7.14E+04 | -7.03E+05 | 7.21E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-780. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-781. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.53 | -2.21E+03 | 2.21E+03 | -2.18E+03 | 2.18E+03 | -1.31E+05 | 1.30E+05 |
| 1/20 | -80.2 | -1.50E+04 | 1.50E+04 | -1.47E+04 | 1.47E+04 | -2.93E+05 | 2.96E+05 |
| 1/15 | -290. | -3.99E+04 | 3.99E+04 | -3.89E+04 | 3.89E+04 | -5.79E+05 | 5.87E+05 |
| 1/10 | 226. | -9.49E+04 | 9.49E+04 | -8.73E+04 | 8.75E+04 | -8.76E+05 | 8.73E+05 |

Table Q-782. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.53 | -2.21E+03 | 2.21E+03 | -2.18E+03 | 2.18E+03 | -1.31E+05 | 1.30E+05 |
| 1/20 | -80.2 | -1.50E+04 | 1.50E+04 | -1.47E+04 | 1.47E+04 | -2.93E+05 | 2.96E+05 |
| 1/15 | -290. | -3.99E+04 | 3.99E+04 | -3.89E+04 | 3.89E+04 | -5.79E+05 | 5.87E+05 |
| 1/10 | 226. | -9.49E+04 | 9.49E+04 | -8.73E+04 | 8.75E+04 | -8.76E+05 | 8.73E+05 |

Table Q-783. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-784. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.86 | -1.27E+03 | 1.28E+03 | -1.24E+03 | 1.25E+03 | -7.39E+04 | 7.52E+04 |
| 1/20 | 333. | -1.05E+04 | 1.23E+04 | -9.47E+03 | 1.18E+04 | -1.96E+05 | 2.29E+05 |
| 1/15 | 579. | -2.35E+04 | 2.78E+04 | -2.18E+04 | 2.65E+04 | -3.36E+05 | 3.89E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

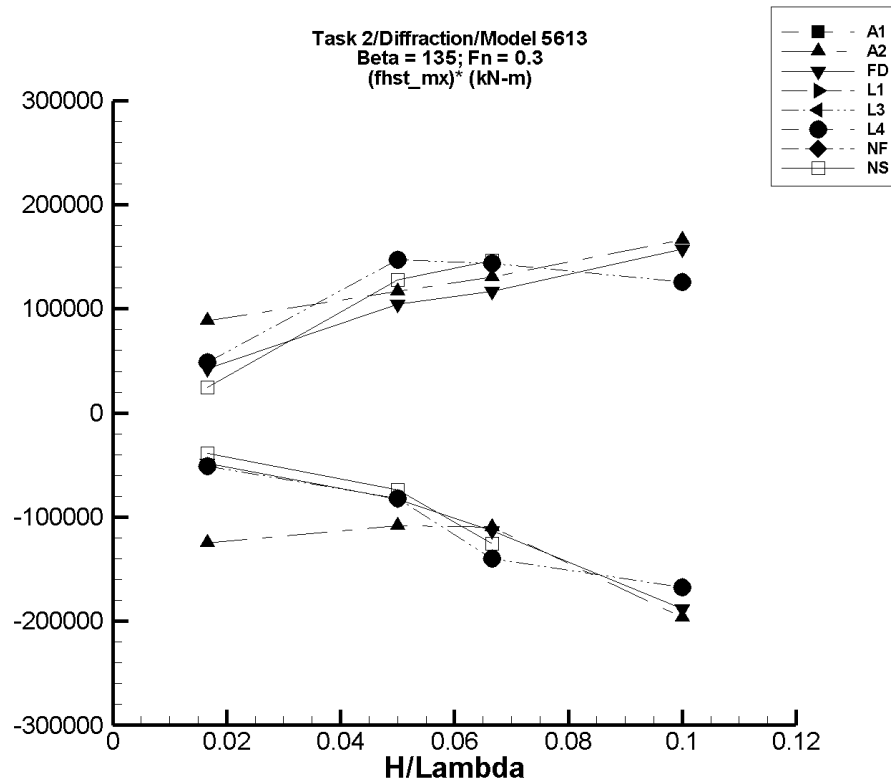


Figure Q-99. Minimum and maximum of filtered $(M_x^{hst} - \langle M_x^{hst} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-785. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-786. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 32.3 | -2.87E+03 | 1.63E+03 | -2.05E+03 | 1.50E+03 | -1.25E+05 | 8.83E+04 |
| 1/20 | 134. | -6.33E+03 | 1.07E+04 | -5.27E+03 | 5.97E+03 | -1.08E+05 | 1.17E+05 |
| 1/15 | 158. | -1.14E+04 | 1.26E+04 | -7.14E+03 | 8.88E+03 | -1.09E+05 | 1.31E+05 |
| 1/10 | -83.9 | -2.54E+04 | 2.12E+04 | -1.97E+04 | 1.65E+04 | -1.96E+05 | 1.66E+05 |

Table Q-787. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -8.02 | -847. | 1.04E+03 | -820. | 697. | -4.87E+04 | 4.23E+04 |
| 1/20 | 40.7 | -4.37E+03 | 9.43E+03 | -4.08E+03 | 5.27E+03 | -8.25E+04 | 1.05E+05 |
| 1/15 | 97.6 | -9.88E+03 | 1.22E+04 | -7.45E+03 | 7.90E+03 | -1.13E+05 | 1.17E+05 |
| 1/10 | -192. | -2.51E+04 | 1.96E+04 | -1.90E+04 | 1.56E+04 | -1.88E+05 | 1.58E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-788. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-789. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.31 | -870. | 960. | -858. | 801. | -5.11E+04 | 4.84E+04 |
| 1/20 | -8.78 | -4.26E+03 | 9.92E+03 | -4.13E+03 | 7.35E+03 | -8.23E+04 | 1.47E+05 |
| 1/15 | 71.9 | -1.01E+04 | 1.27E+04 | -9.25E+03 | 9.64E+03 | -1.40E+05 | 1.44E+05 |
| 1/10 | 74.1 | -1.97E+04 | 1.44E+04 | -1.67E+04 | 1.26E+04 | -1.68E+05 | 1.26E+05 |

Table Q-790. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.31 | -870. | 960. | -858. | 801. | -5.11E+04 | 4.84E+04 |
| 1/20 | -8.78 | -4.26E+03 | 9.92E+03 | -4.13E+03 | 7.35E+03 | -8.23E+04 | 1.47E+05 |
| 1/15 | 71.9 | -1.01E+04 | 1.27E+04 | -9.25E+03 | 9.64E+03 | -1.40E+05 | 1.44E+05 |
| 1/10 | 74.1 | -1.97E+04 | 1.44E+04 | -1.67E+04 | 1.26E+04 | -1.68E+05 | 1.26E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–791. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–792. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.36 | -670. | 410. | -649. | 403. | -3.88E+04 | 2.44E+04 |
| 1/20 | 281. | -4.29E+03 | 8.75E+03 | -3.40E+03 | 6.67E+03 | -7.37E+04 | 1.28E+05 |
| 1/15 | 622. | -9.31E+03 | 1.25E+04 | -7.76E+03 | 1.04E+04 | -1.26E+05 | 1.47E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

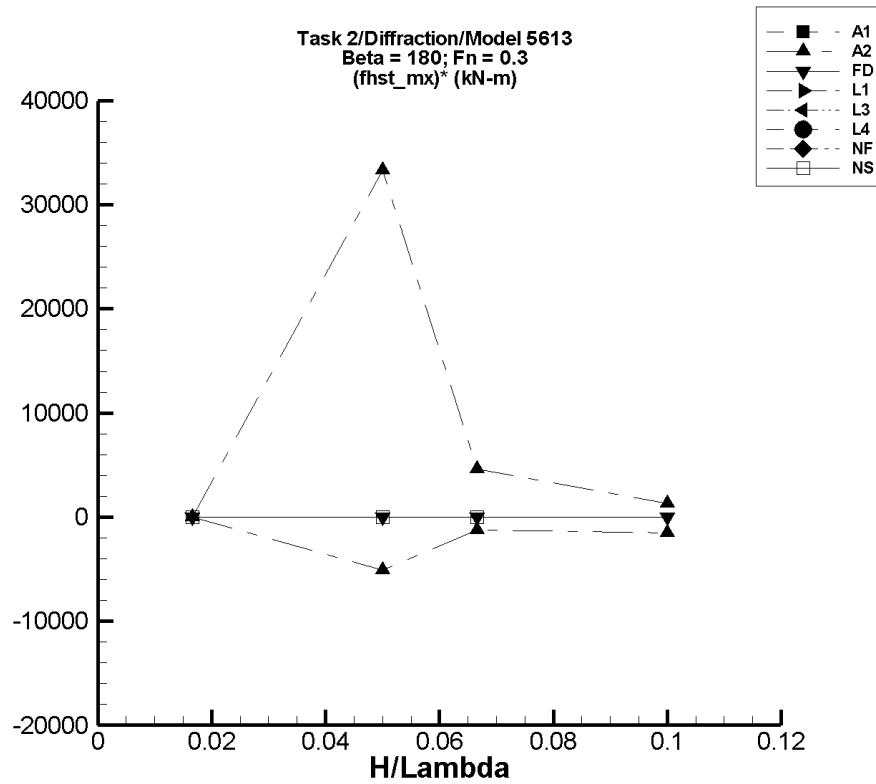


Figure Q-100. Minimum and maximum of filtered $(M_x^{\text{hst}} - \langle M_x^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-793. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-794. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 9.71E-05 | -7.61E-04 | 1.82E-03 | -1.55E-04 | 6.79E-04 | -1.51E-02 | 3.49E-02 |
| 1/20 | 104. | -1.58E-03 | 1.33E+04 | -152. | 1.77E+03 | -5.11E+03 | 3.33E+04 |
| 1/15 | 51.1 | -7.36E-03 | 2.68E+03 | -30.4 | 357. | -1.22E+03 | 4.59E+03 |
| 1/10 | -2.39 | -1.12E+03 | 912. | -156. | 131. | -1.54E+03 | 1.33E+03 |

Table Q-795. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.34E-04 | -2.27E-02 | 1.51E-02 | -1.26E-02 | 8.74E-03 | -0.750 | 0.532 |
| 1/20 | 3.37E-04 | -2.50E-02 | 2.55E-02 | -4.38E-03 | 5.61E-03 | -9.43E-02 | 0.105 |
| 1/15 | -2.44E-03 | -8.97E-02 | 4.75E-02 | -2.37E-02 | 9.83E-03 | -0.319 | 0.184 |
| 1/10 | 7.76E-03 | -0.173 | 0.264 | -6.28E-02 | 0.130 | -0.706 | 1.23 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–796. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|--------|-----------------------------|--------|---------------------------------|--------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | (kN-m) | (kN-m) | (kN-m) | (kN-m) | (kN-m) | (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–797. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|--------|-----------------------------|--------|---------------------------------|--------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | (kN-m) | (kN-m) | (kN-m) | (kN-m) | (kN-m) | (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–798. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|--------|-----------------------------|--------|---------------------------------|--------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | | Min. | Max. | Min. | Max. | Min. | Max. |
| | | (kN-m) | (kN-m) | (kN-m) | (kN-m) | (kN-m) | (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-799. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-800. Minimum and Maximum of Variables M_x^{hst} and $(M_x^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{hst}} \rangle$ | Unfiltered M_x^{hst} | | Filtered M_x^{hst} | | Filtered $(M_x^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.93E-04 | -9.02E-03 | 1.13E-02 | -2.17E-03 | 3.85E-03 | -0.119 | 0.242 |
| 1/20 | -8.14E-05 | -1.07E-02 | 1.32E-02 | -2.29E-03 | 5.06E-03 | -4.42E-02 | 0.103 |
| 1/15 | -8.03E-04 | -1.59E-02 | 1.38E-02 | -6.33E-03 | 4.09E-03 | -8.29E-02 | 7.33E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

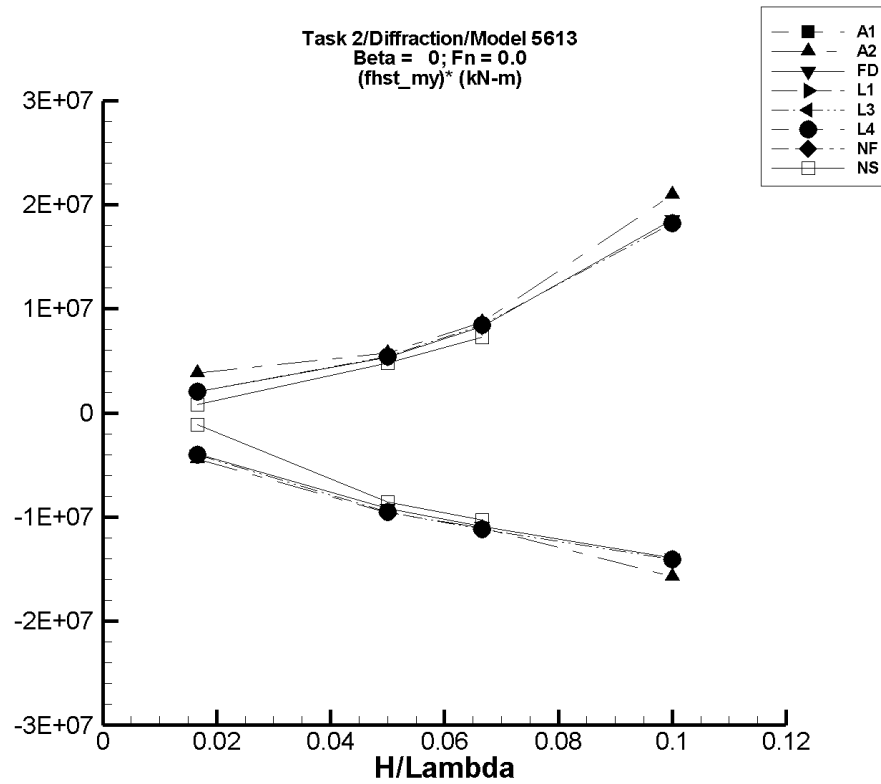


Figure Q-101. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-801. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-802. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.64E+03 | -7.90E+04 | 6.40E+04 | -7.65E+04 | 6.10E+04 | -4.43E+06 | 3.82E+06 |
| 1/20 | -8.78E+04 | -5.84E+05 | 2.05E+05 | -5.66E+05 | 2.00E+05 | -9.56E+06 | 5.77E+06 |
| 1/15 | -1.23E+05 | -8.72E+05 | 4.96E+05 | -8.60E+05 | 4.56E+05 | -1.10E+07 | 8.70E+06 |
| 1/10 | 3.04E+05 | -1.30E+06 | 2.42E+06 | -1.27E+06 | 2.40E+06 | -1.57E+07 | 2.10E+07 |

Table Q-803. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.71E+04 | -8.40E+04 | 1.73E+04 | -8.26E+04 | 1.74E+04 | -3.93E+06 | 2.07E+06 |
| 1/20 | -1.08E+05 | -5.85E+05 | 1.62E+05 | -5.68E+05 | 1.61E+05 | -9.21E+06 | 5.37E+06 |
| 1/15 | -1.37E+05 | -8.87E+05 | 4.14E+05 | -8.65E+05 | 4.14E+05 | -1.09E+07 | 8.27E+06 |
| 1/10 | 1.71E+05 | -1.24E+06 | 2.10E+06 | -1.22E+06 | 2.02E+06 | -1.39E+07 | 1.85E+07 |

Table Q-804. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-805. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -8.96E+04 | 1.26E+04 | -8.91E+04 | 1.25E+04 | -4.03E+06 | 2.07E+06 |
| 1/20 | -1.11E+05 | -5.92E+05 | 1.61E+05 | -5.86E+05 | 1.61E+05 | -9.51E+06 | 5.43E+06 |
| 1/15 | -1.40E+05 | -8.95E+05 | 4.20E+05 | -8.85E+05 | 4.20E+05 | -1.12E+07 | 8.41E+06 |
| 1/10 | 1.66E+05 | -1.25E+06 | 2.07E+06 | -1.24E+06 | 1.99E+06 | -1.40E+07 | 1.82E+07 |

Table Q-806. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -8.96E+04 | 1.26E+04 | -8.91E+04 | 1.25E+04 | -4.03E+06 | 2.07E+06 |
| 1/20 | -1.11E+05 | -5.92E+05 | 1.61E+05 | -5.86E+05 | 1.61E+05 | -9.51E+06 | 5.43E+06 |
| 1/15 | -1.40E+05 | -8.95E+05 | 4.20E+05 | -8.85E+05 | 4.20E+05 | -1.12E+07 | 8.41E+06 |
| 1/10 | 1.66E+05 | -1.25E+06 | 2.07E+06 | -1.24E+06 | 1.99E+06 | -1.40E+07 | 1.82E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-807. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-808. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.53E+04 | -9.43E+04 | -6.11E+04 | -9.37E+04 | -6.14E+04 | -1.11E+06 | 8.35E+05 |
| 1/20 | -1.60E+05 | -5.98E+05 | 8.19E+04 | -5.88E+05 | 8.05E+04 | -8.56E+06 | 4.81E+06 |
| 1/15 | -2.74E+05 | -9.91E+05 | 2.14E+05 | -9.58E+05 | 2.11E+05 | -1.03E+07 | 7.28E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

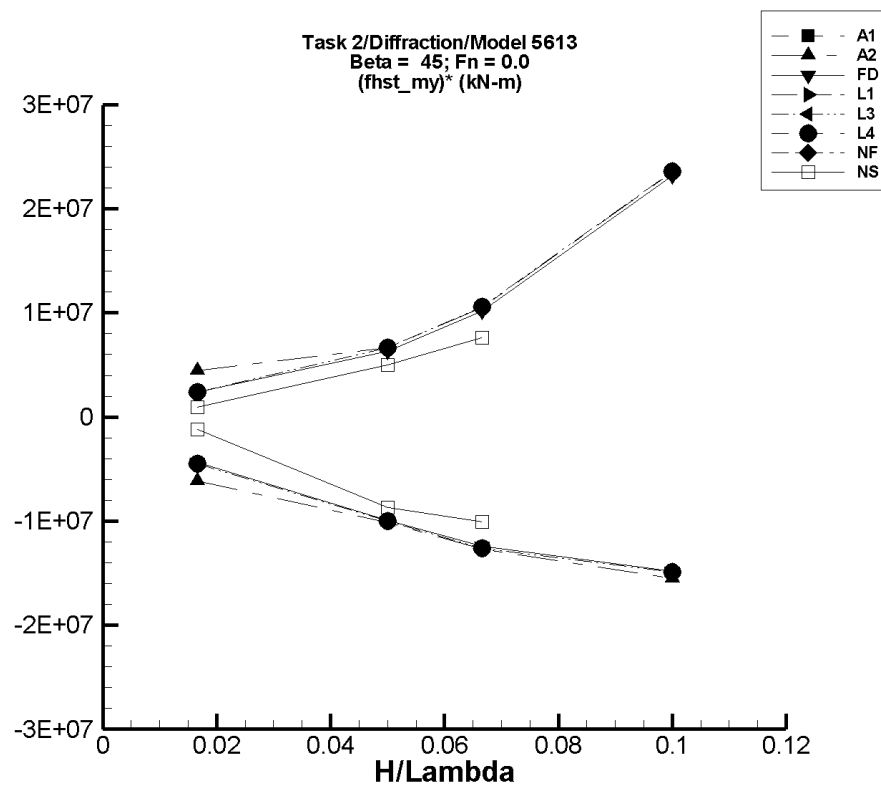


Figure Q-102. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-809. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-810. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.13E+03 | -1.09E+05 | 7.14E+04 | -1.06E+05 | 7.15E+04 | -6.16E+06 | 4.48E+06 |
| 1/20 | -8.48E+04 | -6.05E+05 | 2.47E+05 | -5.93E+05 | 2.47E+05 | -1.02E+07 | 6.63E+06 |
| 1/15 | -1.24E+05 | -9.85E+05 | 5.94E+05 | -9.69E+05 | 5.75E+05 | -1.27E+07 | 1.05E+07 |
| 1/10 | 2.13E+05 | -1.37E+06 | 2.66E+06 | -1.34E+06 | 2.56E+06 | -1.55E+07 | 2.35E+07 |

Table Q-811. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.70E+04 | -9.15E+04 | 2.26E+04 | -9.00E+04 | 2.24E+04 | -4.38E+06 | 2.36E+06 |
| 1/20 | -1.03E+05 | -6.09E+05 | 2.18E+05 | -6.01E+05 | 2.14E+05 | -9.96E+06 | 6.34E+06 |
| 1/15 | -1.37E+05 | -9.81E+05 | 5.48E+05 | -9.65E+05 | 5.39E+05 | -1.24E+07 | 1.01E+07 |
| 1/10 | 1.90E+05 | -1.31E+06 | 2.60E+06 | -1.30E+06 | 2.51E+06 | -1.49E+07 | 2.32E+07 |

Table Q-812. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-813. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.17E+04 | -9.70E+04 | 1.86E+04 | -9.64E+04 | 1.85E+04 | -4.49E+06 | 2.41E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.09E+05 | 2.24E+05 | -1.00E+07 | 6.63E+06 |
| 1/15 | -1.46E+05 | -9.90E+05 | 5.66E+05 | -9.89E+05 | 5.61E+05 | -1.26E+07 | 1.06E+07 |
| 1/10 | 1.79E+05 | -1.32E+06 | 2.61E+06 | -1.31E+06 | 2.54E+06 | -1.49E+07 | 2.36E+07 |

Table Q-814. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.17E+04 | -9.70E+04 | 1.86E+04 | -9.64E+04 | 1.85E+04 | -4.49E+06 | 2.41E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.09E+05 | 2.24E+05 | -1.00E+07 | 6.63E+06 |
| 1/15 | -1.46E+05 | -9.90E+05 | 5.66E+05 | -9.89E+05 | 5.61E+05 | -1.26E+07 | 1.06E+07 |
| 1/10 | 1.79E+05 | -1.32E+06 | 2.61E+06 | -1.31E+06 | 2.54E+06 | -1.49E+07 | 2.36E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-815. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-816. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.51E+04 | -9.56E+04 | -6.00E+04 | -9.50E+04 | -6.00E+04 | -1.19E+06 | 9.07E+05 |
| 1/20 | -1.54E+05 | -6.00E+05 | 9.85E+04 | -5.87E+05 | 9.51E+04 | -8.67E+06 | 4.98E+06 |
| 1/15 | -2.73E+05 | -9.51E+05 | 2.42E+05 | -9.47E+05 | 2.36E+05 | -1.01E+07 | 7.64E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

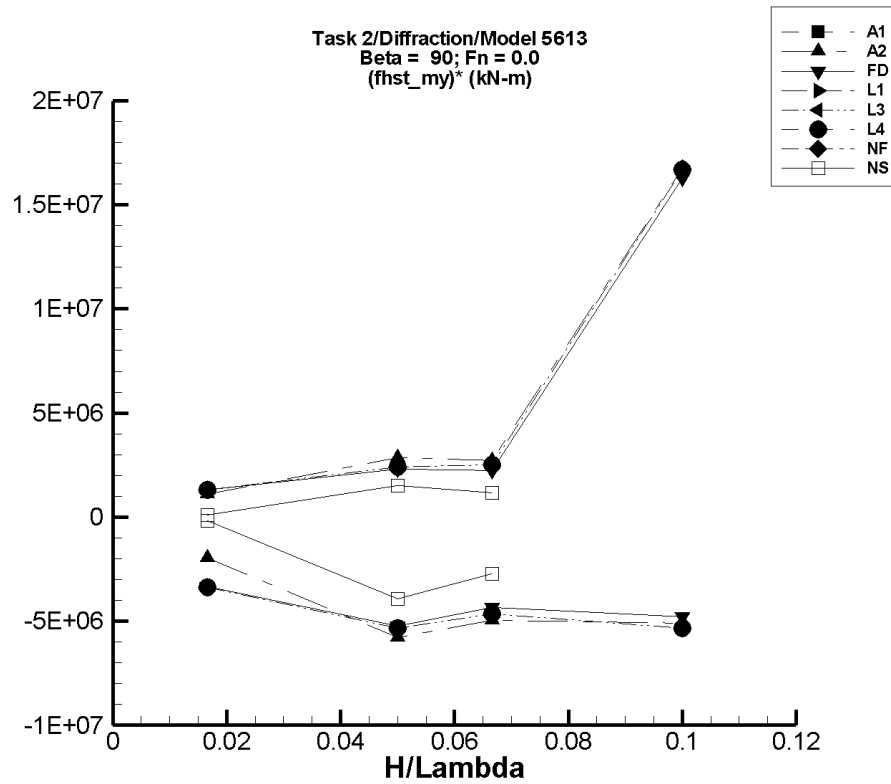


Figure Q-103. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-817. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-818. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.91E+03 | -3.67E+04 | 1.79E+04 | -3.57E+04 | 1.55E+04 | -1.97E+06 | 1.10E+06 |
| 1/20 | -8.19E+04 | -3.79E+05 | 6.40E+04 | -3.72E+05 | 6.16E+04 | -5.79E+06 | 2.87E+06 |
| 1/15 | -1.23E+05 | -5.86E+05 | 6.23E+04 | -4.54E+05 | 5.88E+04 | -4.97E+06 | 2.72E+06 |
| 1/10 | 1.87E+05 | -4.81E+05 | 1.95E+06 | -3.23E+05 | 1.86E+06 | -5.11E+06 | 1.68E+07 |

Table Q–819. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.71E+04 | -7.33E+04 | 4.60E+03 | -7.27E+04 | 4.55E+03 | -3.33E+06 | 1.30E+06 |
| 1/20 | -1.07E+05 | -3.71E+05 | 8.02E+03 | -3.70E+05 | 7.30E+03 | -5.25E+06 | 2.29E+06 |
| 1/15 | -1.40E+05 | -4.46E+05 | 1.08E+04 | -4.30E+05 | 9.83E+03 | -4.35E+06 | 2.24E+06 |
| 1/10 | 1.76E+05 | -3.71E+05 | 1.88E+06 | -3.02E+05 | 1.80E+06 | -4.78E+06 | 1.63E+07 |

Table Q–820. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-821. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -7.86E+04 | -99.4 | -7.82E+04 | -115. | -3.38E+06 | 1.31E+06 |
| 1/20 | -1.08E+05 | -3.77E+05 | 1.27E+04 | -3.76E+05 | 1.26E+04 | -5.35E+06 | 2.42E+06 |
| 1/15 | -1.42E+05 | -4.59E+05 | 2.61E+04 | -4.52E+05 | 2.59E+04 | -4.66E+06 | 2.51E+06 |
| 1/10 | 1.91E+05 | -3.82E+05 | 1.82E+06 | -3.44E+05 | 1.86E+06 | -5.35E+06 | 1.67E+07 |

Table Q-822. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -7.86E+04 | -99.4 | -7.82E+04 | -115. | -3.38E+06 | 1.31E+06 |
| 1/20 | -1.08E+05 | -3.77E+05 | 1.27E+04 | -3.76E+05 | 1.26E+04 | -5.35E+06 | 2.42E+06 |
| 1/15 | -1.42E+05 | -4.59E+05 | 2.61E+04 | -4.52E+05 | 2.59E+04 | -4.66E+06 | 2.51E+06 |
| 1/10 | 1.91E+05 | -3.82E+05 | 1.82E+06 | -3.44E+05 | 1.86E+06 | -5.35E+06 | 1.67E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-823. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-824. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.47E+04 | -7.75E+04 | -7.26E+04 | -7.74E+04 | -7.29E+04 | -1.63E+05 | 1.06E+05 |
| 1/20 | -1.49E+05 | -3.70E+05 | -7.20E+04 | -3.45E+05 | -7.35E+04 | -3.93E+06 | 1.51E+06 |
| 1/15 | -2.72E+05 | -4.70E+05 | -1.93E+05 | -4.54E+05 | -1.93E+05 | -2.73E+06 | 1.18E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

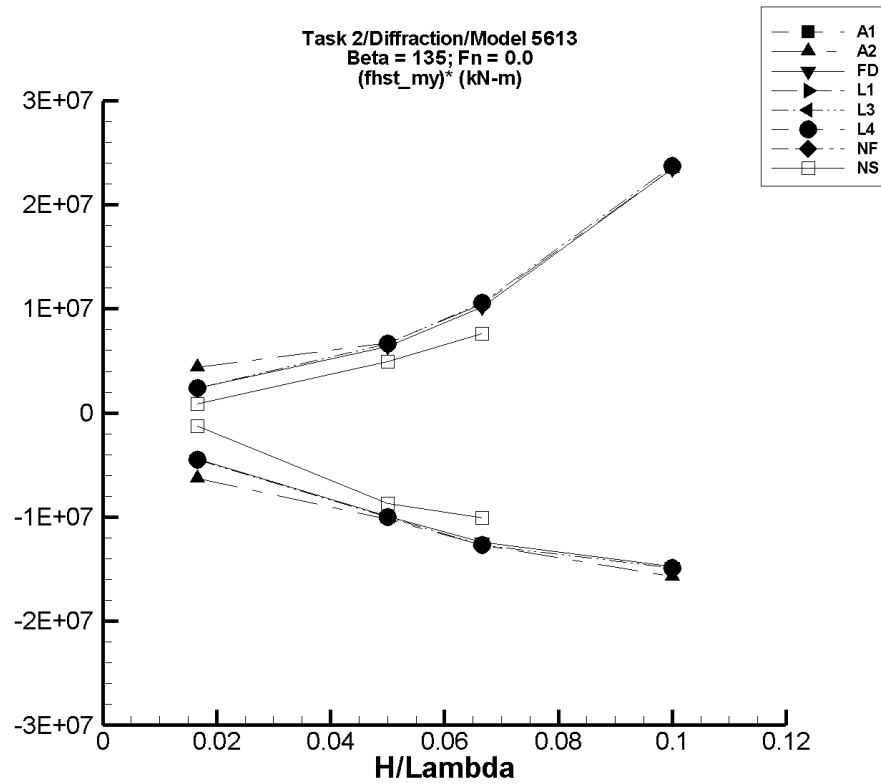


Figure Q-104. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-825. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-826. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.91E+03 | -1.09E+05 | 7.14E+04 | -1.08E+05 | 7.00E+04 | -6.32E+06 | 4.38E+06 |
| 1/20 | -8.11E+04 | -6.04E+05 | 3.14E+05 | -5.91E+05 | 2.55E+05 | -1.02E+07 | 6.72E+06 |
| 1/15 | -1.23E+05 | -9.89E+05 | 5.96E+05 | -9.69E+05 | 5.71E+05 | -1.27E+07 | 1.04E+07 |
| 1/10 | 2.22E+05 | -1.37E+06 | 2.68E+06 | -1.35E+06 | 2.57E+06 | -1.57E+07 | 2.35E+07 |

Table Q-827. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.73E+04 | -9.15E+04 | 2.26E+04 | -9.09E+04 | 2.24E+04 | -4.42E+06 | 2.38E+06 |
| 1/20 | -1.05E+05 | -6.08E+05 | 2.18E+05 | -6.02E+05 | 2.14E+05 | -9.93E+06 | 6.38E+06 |
| 1/15 | -1.37E+05 | -9.81E+05 | 5.49E+05 | -9.65E+05 | 5.39E+05 | -1.24E+07 | 1.01E+07 |
| 1/10 | 1.79E+05 | -1.31E+06 | 2.62E+06 | -1.30E+06 | 2.52E+06 | -1.47E+07 | 2.34E+07 |

Table Q-828. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-829. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.17E+04 | -9.70E+04 | 1.86E+04 | -9.64E+04 | 1.85E+04 | -4.48E+06 | 2.41E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.09E+05 | 2.24E+05 | -1.00E+07 | 6.63E+06 |
| 1/15 | -1.43E+05 | -9.90E+05 | 5.66E+05 | -9.88E+05 | 5.61E+05 | -1.27E+07 | 1.06E+07 |
| 1/10 | 1.79E+05 | -1.32E+06 | 2.61E+06 | -1.31E+06 | 2.55E+06 | -1.49E+07 | 2.37E+07 |

Table Q-830. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.17E+04 | -9.70E+04 | 1.86E+04 | -9.64E+04 | 1.85E+04 | -4.48E+06 | 2.41E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.09E+05 | 2.24E+05 | -1.00E+07 | 6.63E+06 |
| 1/15 | -1.43E+05 | -9.90E+05 | 5.66E+05 | -9.88E+05 | 5.61E+05 | -1.27E+07 | 1.06E+07 |
| 1/10 | 1.79E+05 | -1.32E+06 | 2.61E+06 | -1.31E+06 | 2.55E+06 | -1.49E+07 | 2.37E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-831. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-832. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.51E+04 | -9.55E+04 | -6.00E+04 | -9.55E+04 | -6.02E+04 | -1.23E+06 | 8.90E+05 |
| 1/20 | -1.51E+05 | -6.00E+05 | 9.84E+04 | -5.86E+05 | 9.50E+04 | -8.68E+06 | 4.93E+06 |
| 1/15 | -2.72E+05 | -9.54E+05 | 2.41E+05 | -9.42E+05 | 2.35E+05 | -1.00E+07 | 7.61E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

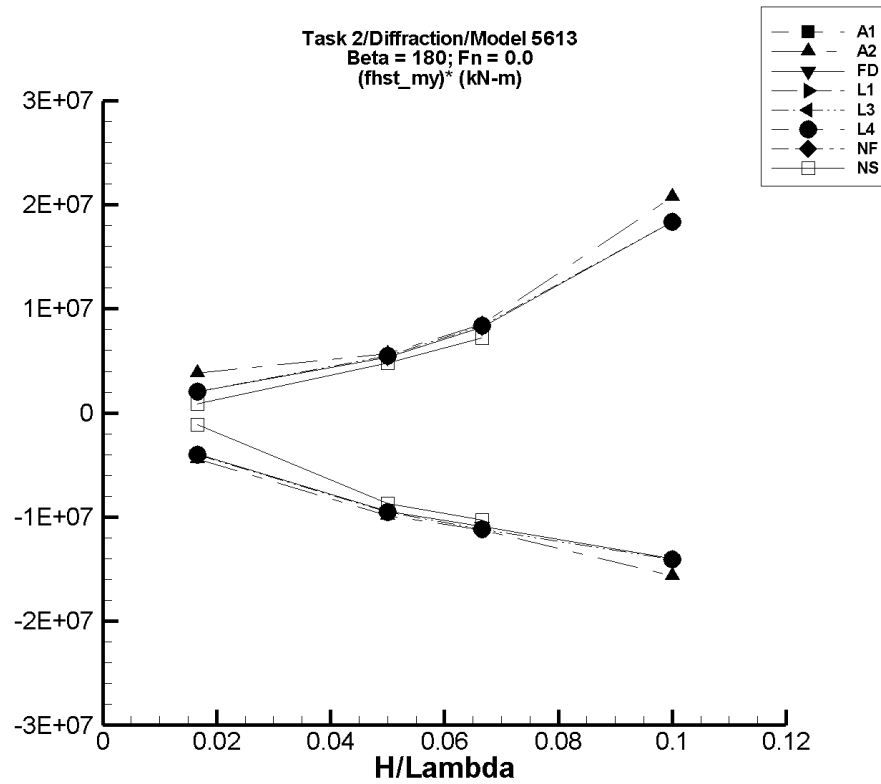


Figure Q-105. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-833. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-834. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.65E+03 | -7.90E+04 | 6.42E+04 | -7.66E+04 | 6.09E+04 | -4.43E+06 | 3.82E+06 |
| 1/20 | -8.54E+04 | -5.84E+05 | 2.05E+05 | -5.77E+05 | 1.98E+05 | -9.84E+06 | 5.68E+06 |
| 1/15 | -1.22E+05 | -8.88E+05 | 4.56E+05 | -8.70E+05 | 4.48E+05 | -1.12E+07 | 8.54E+06 |
| 1/10 | 2.97E+05 | -1.29E+06 | 2.42E+06 | -1.27E+06 | 2.37E+06 | -1.56E+07 | 2.07E+07 |

Table Q-835. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.66E+04 | -8.40E+04 | 1.73E+04 | -8.26E+04 | 1.72E+04 | -3.96E+06 | 2.03E+06 |
| 1/20 | -1.11E+05 | -5.85E+05 | 1.62E+05 | -5.82E+05 | 1.58E+05 | -9.44E+06 | 5.38E+06 |
| 1/15 | -1.40E+05 | -8.86E+05 | 4.14E+05 | -8.65E+05 | 4.09E+05 | -1.09E+07 | 8.23E+06 |
| 1/10 | 1.83E+05 | -1.24E+06 | 2.10E+06 | -1.22E+06 | 2.02E+06 | -1.40E+07 | 1.84E+07 |

Table Q-836. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-837. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -8.96E+04 | 1.26E+04 | -8.91E+04 | 1.25E+04 | -4.03E+06 | 2.06E+06 |
| 1/20 | -1.12E+05 | -5.92E+05 | 1.61E+05 | -5.90E+05 | 1.60E+05 | -9.55E+06 | 5.45E+06 |
| 1/15 | -1.39E+05 | -8.94E+05 | 4.20E+05 | -8.85E+05 | 4.19E+05 | -1.12E+07 | 8.37E+06 |
| 1/10 | 1.70E+05 | -1.25E+06 | 2.14E+06 | -1.24E+06 | 2.00E+06 | -1.41E+07 | 1.83E+07 |

Table Q-838. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -8.96E+04 | 1.26E+04 | -8.91E+04 | 1.25E+04 | -4.03E+06 | 2.06E+06 |
| 1/20 | -1.12E+05 | -5.92E+05 | 1.61E+05 | -5.90E+05 | 1.60E+05 | -9.55E+06 | 5.45E+06 |
| 1/15 | -1.39E+05 | -8.94E+05 | 4.20E+05 | -8.85E+05 | 4.19E+05 | -1.12E+07 | 8.37E+06 |
| 1/10 | 1.70E+05 | -1.25E+06 | 2.14E+06 | -1.24E+06 | 2.00E+06 | -1.41E+07 | 1.83E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-839. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-840. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.53E+04 | -9.43E+04 | -6.11E+04 | -9.37E+04 | -6.14E+04 | -1.10E+06 | 8.39E+05 |
| 1/20 | -1.60E+05 | -5.98E+05 | 8.19E+04 | -5.95E+05 | 8.05E+04 | -8.70E+06 | 4.81E+06 |
| 1/15 | -2.71E+05 | -9.91E+05 | 2.14E+05 | -9.58E+05 | 2.11E+05 | -1.03E+07 | 7.24E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

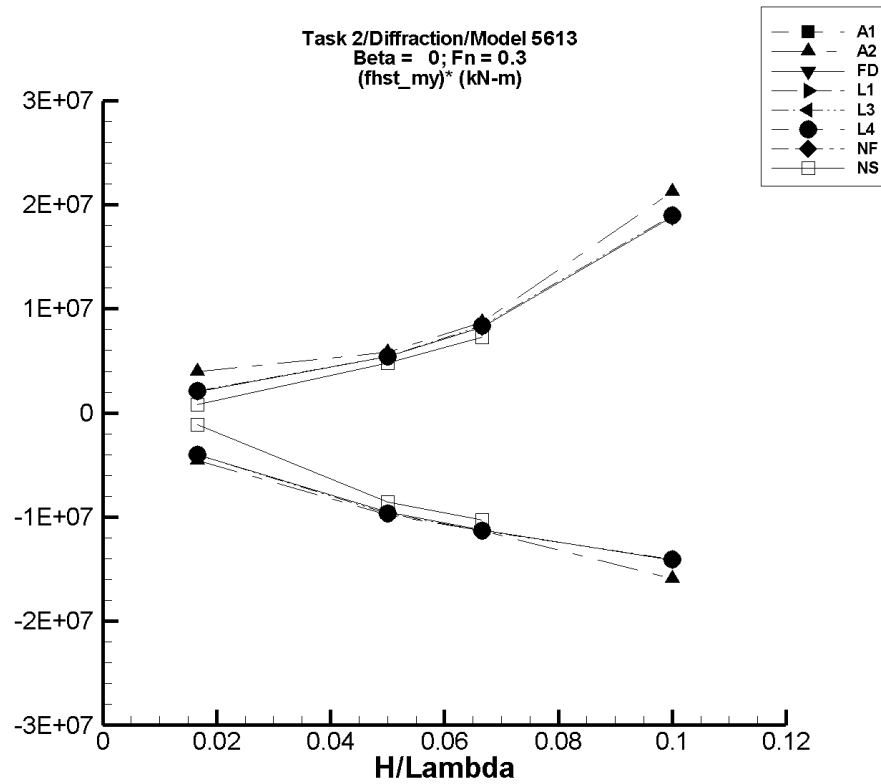


Figure Q-106. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-841. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-842. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.61E+03 | -7.90E+04 | 6.42E+04 | -7.89E+04 | 6.39E+04 | -4.57E+06 | 3.99E+06 |
| 1/20 | -8.68E+04 | -5.84E+05 | 2.05E+05 | -5.76E+05 | 2.05E+05 | -9.78E+06 | 5.84E+06 |
| 1/15 | -1.25E+05 | -8.89E+05 | 4.96E+05 | -8.78E+05 | 4.56E+05 | -1.13E+07 | 8.71E+06 |
| 1/10 | 3.04E+05 | -1.30E+06 | 2.42E+06 | -1.29E+06 | 2.43E+06 | -1.59E+07 | 2.13E+07 |

Table Q–843. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.70E+04 | -8.40E+04 | 1.73E+04 | -8.40E+04 | 1.73E+04 | -4.02E+06 | 2.06E+06 |
| 1/20 | -1.08E+05 | -5.85E+05 | 1.62E+05 | -5.84E+05 | 1.62E+05 | -9.53E+06 | 5.39E+06 |
| 1/15 | -1.37E+05 | -8.87E+05 | 4.14E+05 | -8.85E+05 | 4.15E+05 | -1.12E+07 | 8.27E+06 |
| 1/10 | 1.76E+05 | -1.24E+06 | 2.10E+06 | -1.24E+06 | 2.06E+06 | -1.41E+07 | 1.88E+07 |

Table Q–844. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-845. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.23E+04 | -8.96E+04 | 1.26E+04 | -8.96E+04 | 1.26E+04 | -4.04E+06 | 2.09E+06 |
| 1/20 | -1.09E+05 | -5.92E+05 | 1.61E+05 | -5.91E+05 | 1.61E+05 | -9.63E+06 | 5.40E+06 |
| 1/15 | -1.38E+05 | -8.95E+05 | 4.20E+05 | -8.94E+05 | 4.20E+05 | -1.13E+07 | 8.37E+06 |
| 1/10 | 1.64E+05 | -1.25E+06 | 2.14E+06 | -1.24E+06 | 2.06E+06 | -1.41E+07 | 1.90E+07 |

Table Q-846. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.23E+04 | -8.96E+04 | 1.26E+04 | -8.96E+04 | 1.26E+04 | -4.04E+06 | 2.09E+06 |
| 1/20 | -1.09E+05 | -5.92E+05 | 1.61E+05 | -5.91E+05 | 1.61E+05 | -9.63E+06 | 5.40E+06 |
| 1/15 | -1.38E+05 | -8.95E+05 | 4.20E+05 | -8.94E+05 | 4.20E+05 | -1.13E+07 | 8.37E+06 |
| 1/10 | 1.64E+05 | -1.25E+06 | 2.14E+06 | -1.24E+06 | 2.06E+06 | -1.41E+07 | 1.90E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-847. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-848. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.53E+04 | -9.43E+04 | -6.11E+04 | -9.37E+04 | -6.13E+04 | -1.11E+06 | 8.36E+05 |
| 1/20 | -1.60E+05 | -5.98E+05 | 8.18E+04 | -5.88E+05 | 8.06E+04 | -8.57E+06 | 4.81E+06 |
| 1/15 | -2.75E+05 | -9.91E+05 | 2.14E+05 | -9.58E+05 | 2.11E+05 | -1.02E+07 | 7.28E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

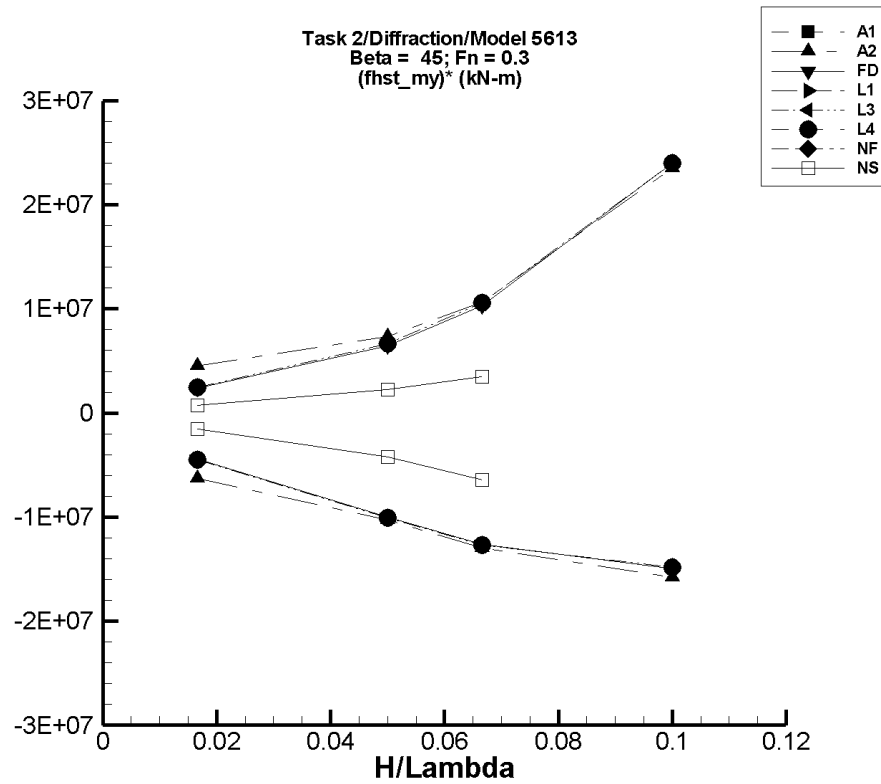


Figure Q-107. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-849. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-850. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.32E+03 | -1.09E+05 | 7.14E+04 | -1.08E+05 | 7.15E+04 | -6.29E+06 | 4.49E+06 |
| 1/20 | -8.31E+04 | -6.05E+05 | 3.14E+05 | -5.97E+05 | 2.85E+05 | -1.03E+07 | 7.36E+06 |
| 1/15 | -1.21E+05 | -9.85E+05 | 6.25E+05 | -9.84E+05 | 5.89E+05 | -1.29E+07 | 1.07E+07 |
| 1/10 | 2.16E+05 | -1.37E+06 | 2.66E+06 | -1.36E+06 | 2.57E+06 | -1.58E+07 | 2.35E+07 |

Table Q–851. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.68E+04 | -9.15E+04 | 2.27E+04 | -9.12E+04 | 2.26E+04 | -4.46E+06 | 2.36E+06 |
| 1/20 | -1.06E+05 | -6.09E+05 | 2.18E+05 | -6.06E+05 | 2.17E+05 | -9.99E+06 | 6.47E+06 |
| 1/15 | -1.42E+05 | -9.81E+05 | 5.49E+05 | -9.81E+05 | 5.46E+05 | -1.26E+07 | 1.03E+07 |
| 1/10 | 1.90E+05 | -1.31E+06 | 2.63E+06 | -1.30E+06 | 2.59E+06 | -1.49E+07 | 2.40E+07 |

Table Q–852. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-853. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.20E+04 | -9.70E+04 | 1.86E+04 | -9.69E+04 | 1.86E+04 | -4.49E+06 | 2.44E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.12E+05 | 2.25E+05 | -1.01E+07 | 6.67E+06 |
| 1/15 | -1.41E+05 | -9.90E+05 | 5.66E+05 | -9.88E+05 | 5.65E+05 | -1.27E+07 | 1.06E+07 |
| 1/10 | 1.73E+05 | -1.32E+06 | 2.61E+06 | -1.31E+06 | 2.58E+06 | -1.48E+07 | 2.40E+07 |

Table Q-854. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.20E+04 | -9.70E+04 | 1.86E+04 | -9.69E+04 | 1.86E+04 | -4.49E+06 | 2.44E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.12E+05 | 2.25E+05 | -1.01E+07 | 6.67E+06 |
| 1/15 | -1.41E+05 | -9.90E+05 | 5.66E+05 | -9.88E+05 | 5.65E+05 | -1.27E+07 | 1.06E+07 |
| 1/10 | 1.73E+05 | -1.32E+06 | 2.61E+06 | -1.31E+06 | 2.58E+06 | -1.48E+07 | 2.40E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-855. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-856. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.35E+04 | -4.09E+04 | -1.70E+03 | -3.96E+04 | -1.68E+03 | -1.57E+06 | 7.07E+05 |
| 1/20 | -1.12E+05 | -3.44E+05 | -886. | -3.23E+05 | -793. | -4.20E+06 | 2.23E+06 |
| 1/15 | -1.50E+05 | -5.85E+05 | 8.44E+04 | -5.80E+05 | 8.39E+04 | -6.45E+06 | 3.51E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

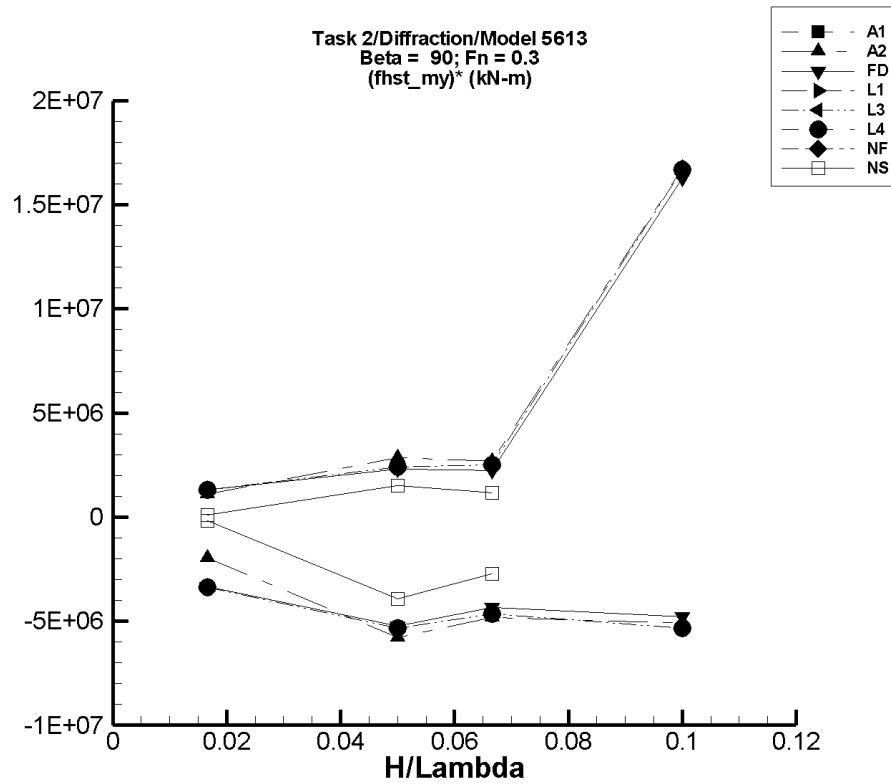


Figure Q-108. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-857. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-858. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.91E+03 | -3.67E+04 | 1.79E+04 | -3.57E+04 | 1.55E+04 | -1.97E+06 | 1.10E+06 |
| 1/20 | -8.19E+04 | -3.79E+05 | 6.40E+04 | -3.72E+05 | 6.16E+04 | -5.79E+06 | 2.87E+06 |
| 1/15 | -1.21E+05 | -4.61E+05 | 6.23E+04 | -4.43E+05 | 5.90E+04 | -4.84E+06 | 2.69E+06 |
| 1/10 | 1.87E+05 | -4.81E+05 | 1.95E+06 | -3.23E+05 | 1.86E+06 | -5.11E+06 | 1.68E+07 |

Table Q-859. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.71E+04 | -7.33E+04 | 4.60E+03 | -7.27E+04 | 4.55E+03 | -3.33E+06 | 1.30E+06 |
| 1/20 | -1.07E+05 | -3.71E+05 | 8.02E+03 | -3.70E+05 | 7.30E+03 | -5.25E+06 | 2.29E+06 |
| 1/15 | -1.40E+05 | -4.46E+05 | 1.08E+04 | -4.30E+05 | 9.83E+03 | -4.35E+06 | 2.24E+06 |
| 1/10 | 1.76E+05 | -3.71E+05 | 1.88E+06 | -3.02E+05 | 1.80E+06 | -4.78E+06 | 1.63E+07 |

Table Q-860. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-861. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -7.86E+04 | -98.9 | -7.82E+04 | -115. | -3.38E+06 | 1.31E+06 |
| 1/20 | -1.08E+05 | -3.77E+05 | 1.27E+04 | -3.76E+05 | 1.26E+04 | -5.35E+06 | 2.42E+06 |
| 1/15 | -1.42E+05 | -4.59E+05 | 2.61E+04 | -4.52E+05 | 2.59E+04 | -4.66E+06 | 2.51E+06 |
| 1/10 | 1.91E+05 | -3.82E+05 | 1.82E+06 | -3.44E+05 | 1.86E+06 | -5.35E+06 | 1.67E+07 |

Table Q-862. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.19E+04 | -7.86E+04 | -98.9 | -7.82E+04 | -115. | -3.38E+06 | 1.31E+06 |
| 1/20 | -1.08E+05 | -3.77E+05 | 1.27E+04 | -3.76E+05 | 1.26E+04 | -5.35E+06 | 2.42E+06 |
| 1/15 | -1.42E+05 | -4.59E+05 | 2.61E+04 | -4.52E+05 | 2.59E+04 | -4.66E+06 | 2.51E+06 |
| 1/10 | 1.91E+05 | -3.82E+05 | 1.82E+06 | -3.44E+05 | 1.86E+06 | -5.35E+06 | 1.67E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-863. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-864. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.47E+04 | -7.75E+04 | -7.26E+04 | -7.74E+04 | -7.29E+04 | -1.63E+05 | 1.06E+05 |
| 1/20 | -1.49E+05 | -3.70E+05 | -7.20E+04 | -3.45E+05 | -7.35E+04 | -3.93E+06 | 1.51E+06 |
| 1/15 | -2.72E+05 | -4.70E+05 | -1.93E+05 | -4.54E+05 | -1.93E+05 | -2.73E+06 | 1.18E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

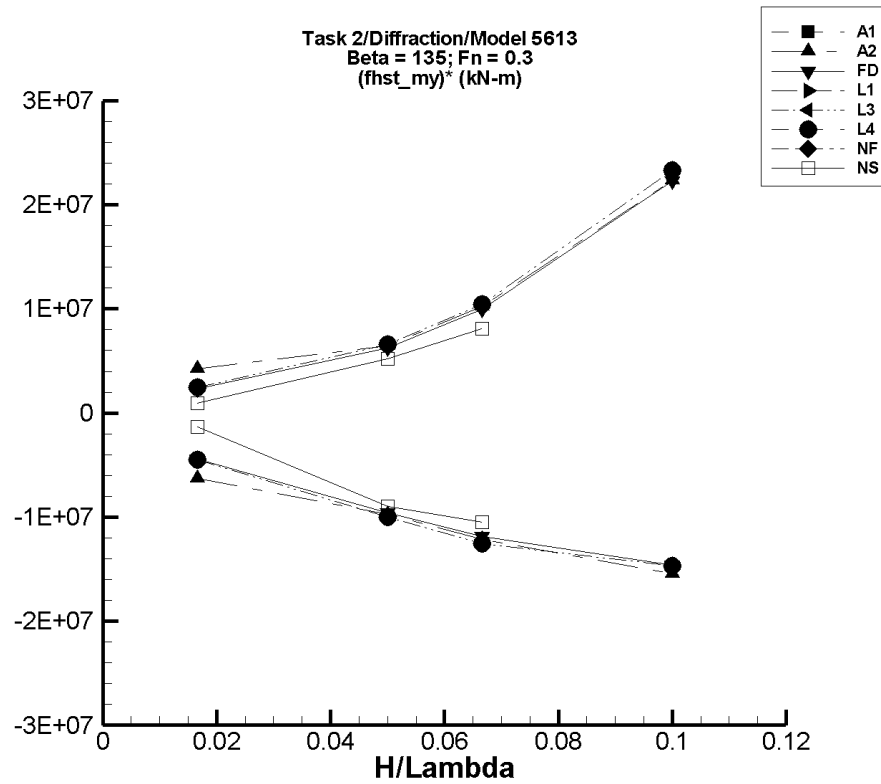


Figure Q-109. Minimum and maximum of filtered $(M_y^{hst} - \langle M_y^{hst} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-865. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-866. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.79E+03 | -1.09E+05 | 7.13E+04 | -1.07E+05 | 6.84E+04 | -6.27E+06 | 4.27E+06 |
| 1/20 | -8.24E+04 | -6.03E+05 | 2.47E+05 | -5.71E+05 | 2.40E+05 | -9.76E+06 | 6.46E+06 |
| 1/15 | -1.21E+05 | -9.85E+05 | 5.96E+05 | -9.31E+05 | 5.59E+05 | -1.21E+07 | 1.02E+07 |
| 1/10 | 2.24E+05 | -1.36E+06 | 2.65E+06 | -1.32E+06 | 2.46E+06 | -1.55E+07 | 2.24E+07 |

Table Q-867. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.69E+04 | -9.14E+04 | 2.26E+04 | -9.09E+04 | 2.20E+04 | -4.44E+06 | 2.33E+06 |
| 1/20 | -1.04E+05 | -6.08E+05 | 2.18E+05 | -5.84E+05 | 2.09E+05 | -9.58E+06 | 6.26E+06 |
| 1/15 | -1.41E+05 | -9.81E+05 | 5.49E+05 | -9.33E+05 | 5.22E+05 | -1.19E+07 | 9.94E+06 |
| 1/10 | 1.81E+05 | -1.31E+06 | 2.59E+06 | -1.28E+06 | 2.41E+06 | -1.46E+07 | 2.22E+07 |

Table Q-868. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-869. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.21E+04 | -9.70E+04 | 1.86E+04 | -9.67E+04 | 1.83E+04 | -4.48E+06 | 2.43E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.07E+05 | 2.22E+05 | -9.99E+06 | 6.59E+06 |
| 1/15 | -1.41E+05 | -9.90E+05 | 5.66E+05 | -9.77E+05 | 5.55E+05 | -1.25E+07 | 1.04E+07 |
| 1/10 | 1.67E+05 | -1.31E+06 | 2.61E+06 | -1.30E+06 | 2.50E+06 | -1.47E+07 | 2.33E+07 |

Table Q-870. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.21E+04 | -9.70E+04 | 1.86E+04 | -9.67E+04 | 1.83E+04 | -4.48E+06 | 2.43E+06 |
| 1/20 | -1.08E+05 | -6.13E+05 | 2.25E+05 | -6.07E+05 | 2.22E+05 | -9.99E+06 | 6.59E+06 |
| 1/15 | -1.41E+05 | -9.90E+05 | 5.66E+05 | -9.77E+05 | 5.55E+05 | -1.25E+07 | 1.04E+07 |
| 1/10 | 1.67E+05 | -1.31E+06 | 2.61E+06 | -1.30E+06 | 2.50E+06 | -1.47E+07 | 2.33E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-871. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-872. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.53E+04 | -9.74E+04 | -5.92E+04 | -9.73E+04 | -5.94E+04 | -1.32E+06 | 9.49E+05 |
| 1/20 | -1.54E+05 | -6.12E+05 | 1.08E+05 | -6.04E+05 | 1.05E+05 | -8.99E+06 | 5.19E+06 |
| 1/15 | -2.73E+05 | -9.85E+05 | 2.73E+05 | -9.71E+05 | 2.67E+05 | -1.05E+07 | 8.11E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

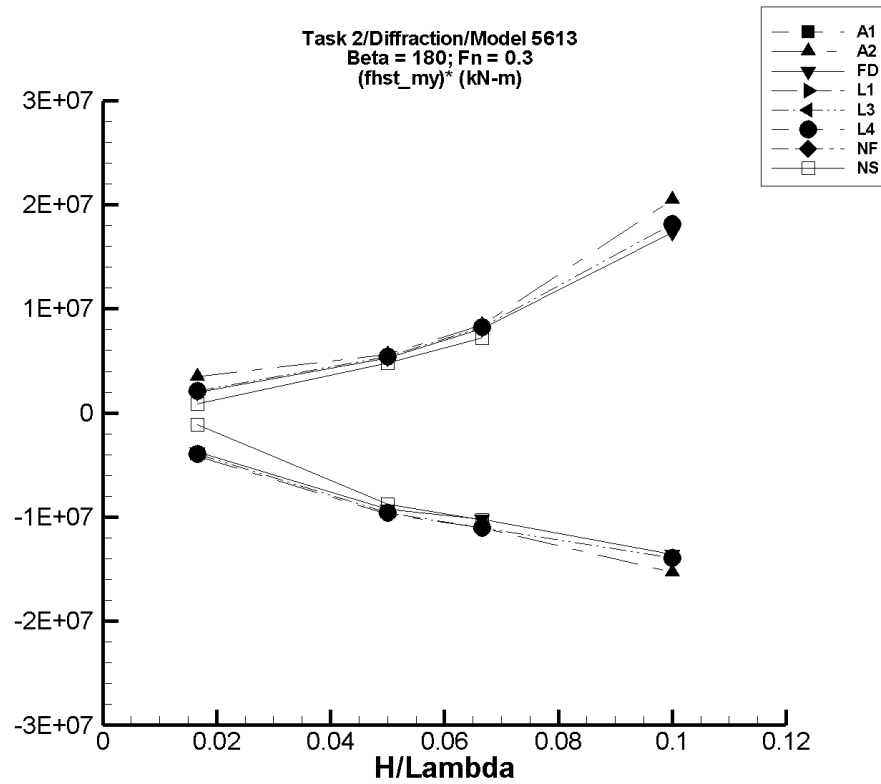


Figure Q-110. Minimum and maximum of filtered $(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-873. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-874. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.50E+03 | -7.90E+04 | 6.37E+04 | -7.20E+04 | 5.53E+04 | -4.17E+06 | 3.47E+06 |
| 1/20 | -8.71E+04 | -5.78E+05 | 2.05E+05 | -5.74E+05 | 1.94E+05 | -9.73E+06 | 5.61E+06 |
| 1/15 | -1.25E+05 | -8.83E+05 | 4.56E+05 | -8.62E+05 | 4.36E+05 | -1.10E+07 | 8.43E+06 |
| 1/10 | 3.07E+05 | -1.29E+06 | 2.42E+06 | -1.22E+06 | 2.36E+06 | -1.53E+07 | 2.05E+07 |

Table Q-875. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.65E+04 | -8.40E+04 | 1.73E+04 | -7.92E+04 | 1.69E+04 | -3.76E+06 | 2.00E+06 |
| 1/20 | -1.10E+05 | -5.85E+05 | 1.61E+05 | -5.72E+05 | 1.54E+05 | -9.22E+06 | 5.29E+06 |
| 1/15 | -1.40E+05 | -8.87E+05 | 4.14E+05 | -8.19E+05 | 4.00E+05 | -1.02E+07 | 8.10E+06 |
| 1/10 | 1.87E+05 | -1.24E+06 | 2.08E+06 | -1.17E+06 | 1.92E+06 | -1.36E+07 | 1.73E+07 |

Table Q-876. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-877. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.22E+04 | -8.96E+04 | 1.26E+04 | -8.79E+04 | 1.26E+04 | -3.95E+06 | 2.09E+06 |
| 1/20 | -1.11E+05 | -5.91E+05 | 1.61E+05 | -5.89E+05 | 1.59E+05 | -9.57E+06 | 5.39E+06 |
| 1/15 | -1.34E+05 | -8.94E+05 | 4.20E+05 | -8.70E+05 | 4.16E+05 | -1.10E+07 | 8.25E+06 |
| 1/10 | 1.74E+05 | -1.25E+06 | 2.07E+06 | -1.22E+06 | 1.99E+06 | -1.40E+07 | 1.81E+07 |

Table Q-878. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.22E+04 | -8.96E+04 | 1.26E+04 | -8.79E+04 | 1.26E+04 | -3.95E+06 | 2.09E+06 |
| 1/20 | -1.11E+05 | -5.91E+05 | 1.61E+05 | -5.89E+05 | 1.59E+05 | -9.57E+06 | 5.39E+06 |
| 1/15 | -1.34E+05 | -8.94E+05 | 4.20E+05 | -8.70E+05 | 4.16E+05 | -1.10E+07 | 8.25E+06 |
| 1/10 | 1.74E+05 | -1.25E+06 | 2.07E+06 | -1.22E+06 | 1.99E+06 | -1.40E+07 | 1.81E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-879. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-880. Minimum and Maximum of Variables M_y^{hst} and $(M_y^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{hst}} \rangle$ | Unfiltered M_y^{hst} | | Filtered M_y^{hst} | | Filtered $(M_y^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.53E+04 | -9.43E+04 | -6.11E+04 | -9.37E+04 | -6.14E+04 | -1.10E+06 | 8.39E+05 |
| 1/20 | -1.60E+05 | -5.98E+05 | 8.18E+04 | -5.97E+05 | 8.05E+04 | -8.74E+06 | 4.80E+06 |
| 1/15 | -2.71E+05 | -9.91E+05 | 2.14E+05 | -9.58E+05 | 2.11E+05 | -1.03E+07 | 7.23E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

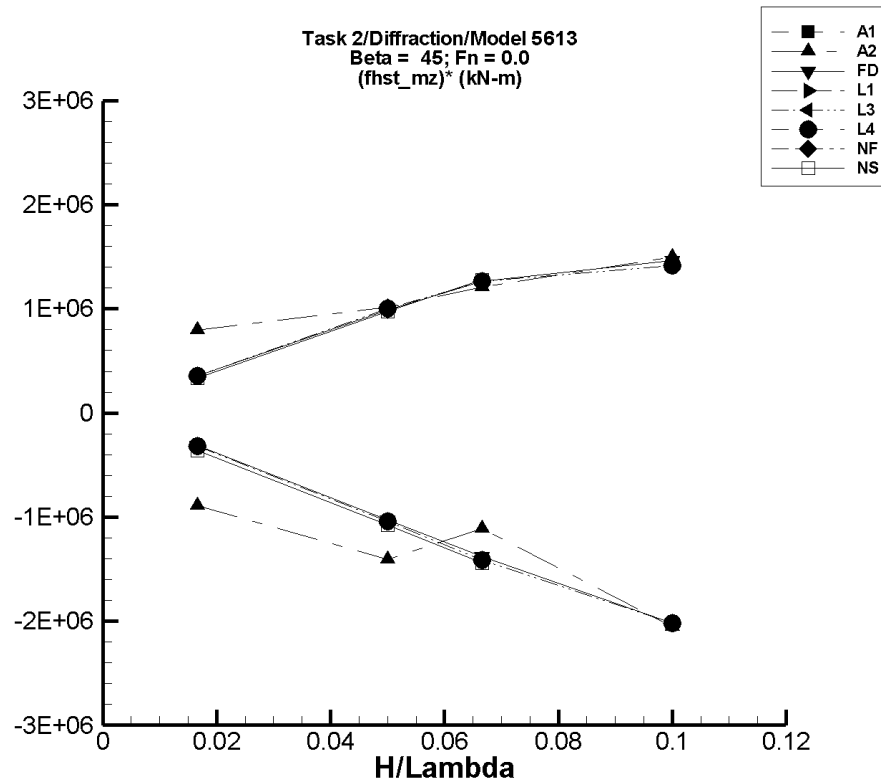


Figure Q-111. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–881. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–882. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 479. | -1.69E+04 | 1.55E+04 | -1.44E+04 | 1.38E+04 | -8.93E+05 | 7.99E+05 |
| 1/20 | 289. | -2.10E+05 | 1.41E+05 | -7.02E+04 | 5.10E+04 | -1.41E+06 | 1.01E+06 |
| 1/15 | -149. | -9.36E+04 | 9.45E+04 | -7.44E+04 | 8.03E+04 | -1.11E+06 | 1.21E+06 |
| 1/10 | 806. | -2.11E+05 | 1.68E+05 | -2.04E+05 | 1.51E+05 | -2.05E+06 | 1.50E+06 |

Table Q–883. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -36.9 | -5.40E+03 | 6.16E+03 | -5.26E+03 | 5.86E+03 | -3.14E+05 | 3.54E+05 |
| 1/20 | -899. | -5.35E+04 | 5.03E+04 | -5.23E+04 | 4.86E+04 | -1.03E+06 | 9.91E+05 |
| 1/15 | -1.75E+03 | -9.58E+04 | 8.67E+04 | -9.37E+04 | 8.26E+04 | -1.38E+06 | 1.27E+06 |
| 1/10 | -1.75E+03 | -2.06E+05 | 1.48E+05 | -2.04E+05 | 1.44E+05 | -2.02E+06 | 1.46E+06 |

Table Q–884. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–885. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -35.1 | -5.45E+03 | 6.02E+03 | -5.41E+03 | 5.93E+03 | -3.22E+05 | 3.58E+05 |
| 1/20 | -282. | -5.30E+04 | 5.05E+04 | -5.25E+04 | 4.98E+04 | -1.04E+06 | 1.00E+06 |
| 1/15 | -145. | -9.51E+04 | 8.53E+04 | -9.42E+04 | 8.40E+04 | -1.41E+06 | 1.26E+06 |
| 1/10 | -58.6 | -2.03E+05 | 1.44E+05 | -2.02E+05 | 1.42E+05 | -2.02E+06 | 1.42E+06 |

Table Q–886. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -35.1 | -5.45E+03 | 6.02E+03 | -5.41E+03 | 5.93E+03 | -3.22E+05 | 3.58E+05 |
| 1/20 | -282. | -5.30E+04 | 5.05E+04 | -5.25E+04 | 4.98E+04 | -1.04E+06 | 1.00E+06 |
| 1/15 | -145. | -9.51E+04 | 8.53E+04 | -9.42E+04 | 8.40E+04 | -1.41E+06 | 1.26E+06 |
| 1/10 | -58.6 | -2.03E+05 | 1.44E+05 | -2.02E+05 | 1.42E+05 | -2.02E+06 | 1.42E+06 |

Table Q–887. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-888. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.47 | -5.95E+03 | 5.85E+03 | -5.97E+03 | 5.61E+03 | -3.58E+05 | 3.37E+05 |
| 1/20 | 281. | -5.33E+04 | 5.11E+04 | -5.36E+04 | 4.89E+04 | -1.08E+06 | 9.73E+05 |
| 1/15 | 151. | -9.64E+04 | 8.68E+04 | -9.61E+04 | 8.55E+04 | -1.44E+06 | 1.28E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

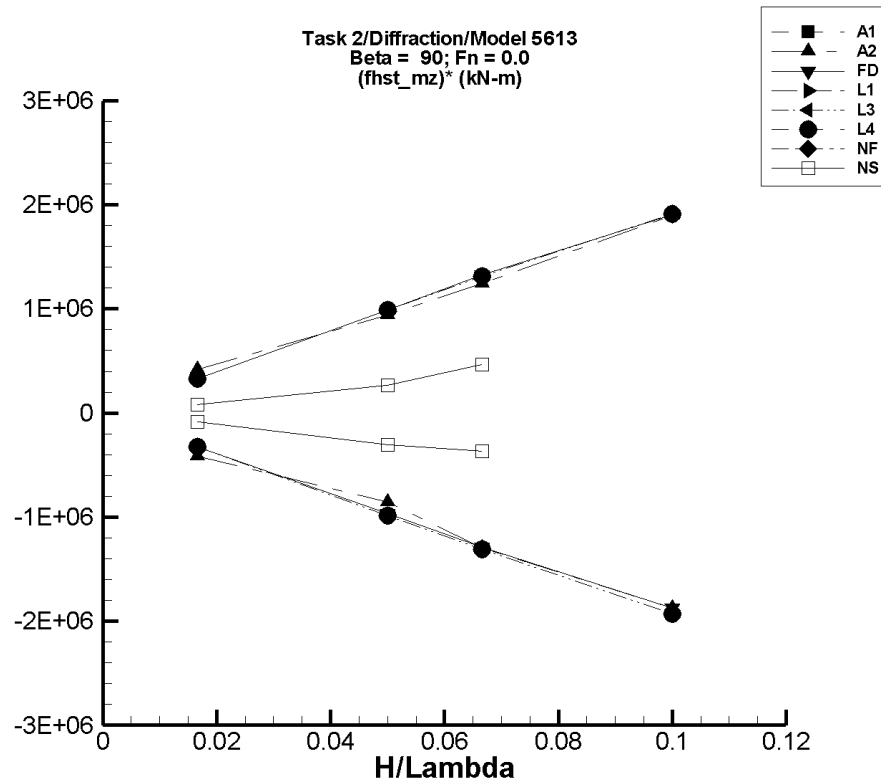


Figure Q-112. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-889. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-890. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.23 | -7.59E+03 | 7.65E+03 | -6.94E+03 | 6.94E+03 | -4.17E+05 | 4.16E+05 |
| 1/20 | -2.34E+03 | -2.64E+05 | 1.86E+05 | -4.51E+04 | 4.47E+04 | -8.55E+05 | 9.41E+05 |
| 1/15 | 1.80E+03 | -1.05E+05 | 2.10E+05 | -8.45E+04 | 8.49E+04 | -1.29E+06 | 1.25E+06 |
| 1/10 | -1.12E+03 | -3.13E+05 | 2.41E+05 | -1.89E+05 | 1.88E+05 | -1.88E+06 | 1.89E+06 |

Table Q–891. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{hst} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{hst} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{hst}})^*$ Max. (kN-m) |
| 1/60 | -26.3 | -5.77E+03 | 5.77E+03 | -5.47E+03 | 5.48E+03 | -3.27E+05 | 3.30E+05 |
| 1/20 | -631. | -5.14E+04 | 5.14E+04 | -4.89E+04 | 4.90E+04 | -9.66E+05 | 9.92E+05 |
| 1/15 | -1.28E+03 | -9.14E+04 | 9.14E+04 | -8.72E+04 | 8.73E+04 | -1.29E+06 | 1.33E+06 |
| 1/10 | -1.21E+03 | -2.06E+05 | 2.05E+05 | -1.89E+05 | 1.89E+05 | -1.87E+06 | 1.90E+06 |

Table Q–892. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{hst} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{hst} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{hst}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–893. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.36E-02 | -5.58E+03 | 5.58E+03 | -5.48E+03 | 5.48E+03 | -3.29E+05 | 3.29E+05 |
| 1/20 | -78.8 | -5.05E+04 | 5.05E+04 | -4.95E+04 | 4.95E+04 | -9.88E+05 | 9.91E+05 |
| 1/15 | -191. | -8.90E+04 | 8.91E+04 | -8.74E+04 | 8.75E+04 | -1.31E+06 | 1.31E+06 |
| 1/10 | 1.08E+03 | -1.98E+05 | 1.98E+05 | -1.92E+05 | 1.92E+05 | -1.93E+06 | 1.91E+06 |

Table Q–894. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.36E-02 | -5.58E+03 | 5.58E+03 | -5.48E+03 | 5.48E+03 | -3.29E+05 | 3.29E+05 |
| 1/20 | -78.8 | -5.05E+04 | 5.05E+04 | -4.95E+04 | 4.95E+04 | -9.88E+05 | 9.91E+05 |
| 1/15 | -191. | -8.90E+04 | 8.91E+04 | -8.74E+04 | 8.75E+04 | -1.31E+06 | 1.31E+06 |
| 1/10 | 1.08E+03 | -1.98E+05 | 1.98E+05 | -1.92E+05 | 1.92E+05 | -1.93E+06 | 1.91E+06 |

Table Q-895. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-896. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.20 | -1.45E+03 | 1.42E+03 | -1.39E+03 | 1.37E+03 | -8.34E+04 | 8.24E+04 |
| 1/20 | 831. | -1.52E+04 | 1.48E+04 | -1.45E+04 | 1.42E+04 | -3.07E+05 | 2.67E+05 |
| 1/15 | 1.06E+03 | -2.58E+04 | 3.35E+04 | -2.35E+04 | 3.19E+04 | -3.68E+05 | 4.63E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

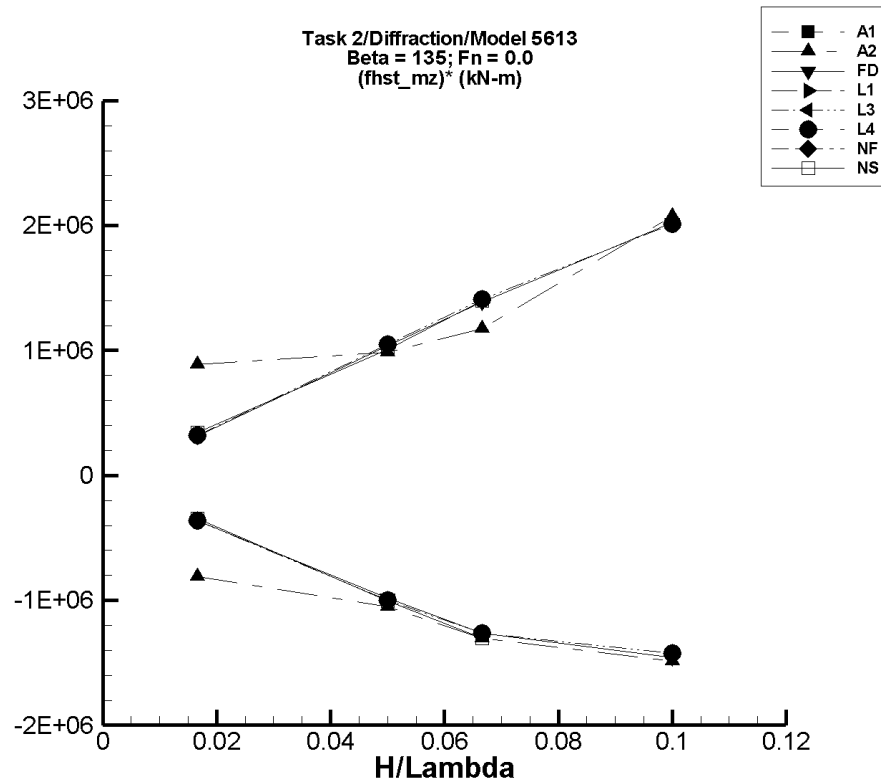


Figure Q-113. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-897. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-898. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -348. | -1.55E+04 | 1.68E+04 | -1.39E+04 | 1.44E+04 | -8.12E+05 | 8.85E+05 |
| 1/20 | 2.60E+03 | -5.18E+04 | 1.54E+05 | -5.00E+04 | 5.19E+04 | -1.05E+06 | 9.86E+05 |
| 1/15 | -2.32E+03 | -1.95E+05 | 9.52E+04 | -8.94E+04 | 7.62E+04 | -1.31E+06 | 1.18E+06 |
| 1/10 | -2.47E+03 | -1.60E+05 | 2.23E+05 | -1.51E+05 | 2.05E+05 | -1.49E+06 | 2.07E+06 |

Table Q–899. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -12.0 | -6.15E+03 | 5.40E+03 | -6.10E+03 | 5.26E+03 | -3.65E+05 | 3.16E+05 |
| 1/20 | 470. | -5.01E+04 | 5.34E+04 | -4.85E+04 | 5.22E+04 | -9.80E+05 | 1.04E+06 |
| 1/15 | 1.20E+03 | -8.69E+04 | 9.57E+04 | -8.29E+04 | 9.36E+04 | -1.26E+06 | 1.39E+06 |
| 1/10 | 1.07E+03 | -1.48E+05 | 2.06E+05 | -1.45E+05 | 2.04E+05 | -1.46E+06 | 2.03E+06 |

Table Q–900. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-901. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 27.6 | -6.02E+03 | 5.45E+03 | -5.98E+03 | 5.41E+03 | -3.60E+05 | 3.23E+05 |
| 1/20 | 185. | -5.04E+04 | 5.30E+04 | -4.98E+04 | 5.25E+04 | -1.00E+06 | 1.05E+06 |
| 1/15 | 178. | -8.53E+04 | 9.51E+04 | -8.40E+04 | 9.42E+04 | -1.26E+06 | 1.41E+06 |
| 1/10 | 369. | -1.44E+05 | 2.04E+05 | -1.42E+05 | 2.02E+05 | -1.42E+06 | 2.02E+06 |

Table Q-902. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 27.6 | -6.02E+03 | 5.45E+03 | -5.98E+03 | 5.41E+03 | -3.60E+05 | 3.23E+05 |
| 1/20 | 185. | -5.04E+04 | 5.30E+04 | -4.98E+04 | 5.25E+04 | -1.00E+06 | 1.05E+06 |
| 1/15 | 178. | -8.53E+04 | 9.51E+04 | -8.40E+04 | 9.42E+04 | -1.26E+06 | 1.41E+06 |
| 1/10 | 369. | -1.44E+05 | 2.04E+05 | -1.42E+05 | 2.02E+05 | -1.42E+06 | 2.02E+06 |

Table Q-903. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-904. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 5.22 | -5.86E+03 | 5.94E+03 | -5.76E+03 | 5.71E+03 | -3.46E+05 | 3.42E+05 |
| 1/20 | 776. | -5.16E+04 | 5.32E+04 | -4.95E+04 | 5.13E+04 | -1.01E+06 | 1.01E+06 |
| 1/15 | 654. | -8.86E+04 | 9.59E+04 | -8.62E+04 | 9.40E+04 | -1.30E+06 | 1.40E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

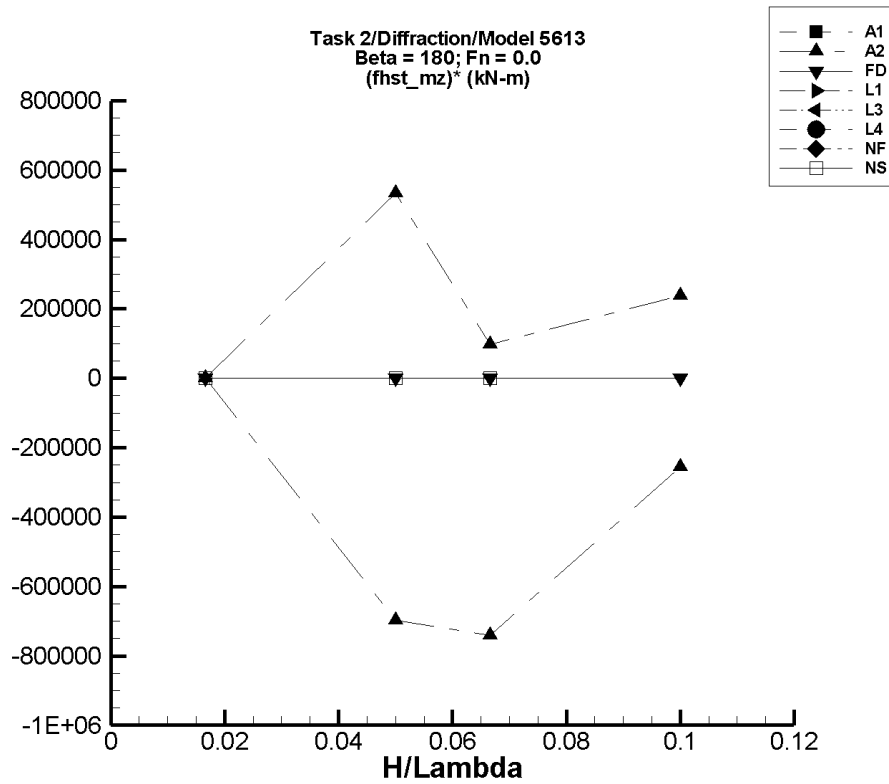


Figure Q-114. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-905. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-906. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.47E-04 | -5.63E-03 | 8.72E-03 | -1.35E-03 | 5.69E-03 | -0.108 | 0.314 |
| 1/20 | 1.62E+03 | -2.45E+05 | 2.12E+05 | -3.32E+04 | 2.83E+04 | -6.97E+05 | 5.34E+05 |
| 1/15 | -2.15E+03 | -3.87E+05 | 6.22E-02 | -5.16E+04 | 4.41E+03 | -7.41E+05 | 9.85E+04 |
| 1/10 | 948. | -1.78E+05 | 1.86E+05 | -2.46E+04 | 2.48E+04 | -2.55E+05 | 2.38E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-907. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.59E-04 | -6.50E-03 | 4.50E-03 | -2.36E-03 | 2.09E-03 | -0.163 | 0.104 |
| 1/20 | 8.52E-03 | -3.45E-02 | 0.113 | -2.38E-02 | 4.85E-02 | -0.646 | 0.800 |
| 1/15 | -1.16E-03 | -2.90E-02 | 4.35E-02 | -2.76E-02 | 2.60E-02 | -0.397 | 0.407 |
| 1/10 | 1.39E-03 | -0.118 | 4.55E-02 | -1.57E-02 | 1.76E-02 | -0.171 | 0.162 |

Table Q-908. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-909. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-910. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-911. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-912. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.41E-03 | -6.58E-02 | 5.91E-02 | -1.45E-02 | 2.05E-02 | -1.13 | 0.968 |
| 1/20 | -4.42E-04 | -7.75E-02 | 0.106 | -2.37E-02 | 2.77E-02 | -0.464 | 0.563 |
| 1/15 | -1.03E-02 | -9.09E-02 | 8.45E-02 | -3.49E-02 | 2.62E-02 | -0.369 | 0.547 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

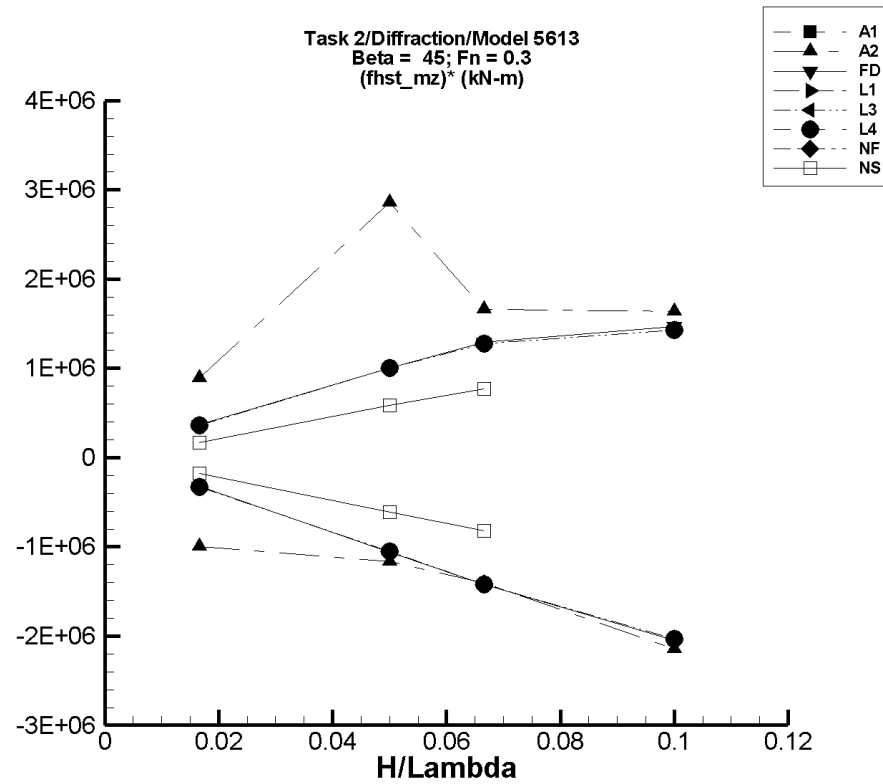


Figure Q-115. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-913. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-914. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 350. | -1.69E+04 | 1.55E+04 | -1.62E+04 | 1.52E+04 | -9.94E+05 | 8.91E+05 |
| 1/20 | 2.41E+03 | -5.60E+04 | 2.31E+05 | -5.58E+04 | 1.45E+05 | -1.17E+06 | 2.86E+06 |
| 1/15 | 385. | -9.64E+04 | 2.85E+05 | -9.34E+04 | 1.11E+05 | -1.41E+06 | 1.66E+06 |
| 1/10 | 2.67E+03 | -3.90E+05 | 3.23E+05 | -2.12E+05 | 1.66E+05 | -2.14E+06 | 1.63E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-915. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -20.7 | -5.40E+03 | 6.16E+03 | -5.37E+03 | 6.08E+03 | -3.21E+05 | 3.66E+05 |
| 1/20 | -173. | -5.35E+04 | 5.04E+04 | -5.30E+04 | 4.99E+04 | -1.06E+06 | 1.00E+06 |
| 1/15 | -429. | -9.58E+04 | 8.67E+04 | -9.51E+04 | 8.58E+04 | -1.42E+06 | 1.29E+06 |
| 1/10 | -313. | -2.06E+05 | 1.48E+05 | -2.05E+05 | 1.47E+05 | -2.05E+06 | 1.47E+06 |

Table Q-916. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-917. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 12.6 | -5.45E+03 | 6.02E+03 | -5.44E+03 | 6.00E+03 | -3.27E+05 | 3.59E+05 |
| 1/20 | -2.95 | -5.31E+04 | 5.05E+04 | -5.28E+04 | 5.03E+04 | -1.06E+06 | 1.01E+06 |
| 1/15 | -195. | -9.51E+04 | 8.53E+04 | -9.48E+04 | 8.52E+04 | -1.42E+06 | 1.28E+06 |
| 1/10 | 407. | -2.04E+05 | 1.44E+05 | -2.03E+05 | 1.43E+05 | -2.03E+06 | 1.43E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-918. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 12.6 | -5.45E+03 | 6.02E+03 | -5.44E+03 | 6.00E+03 | -3.27E+05 | 3.59E+05 |
| 1/20 | -2.95 | -5.31E+04 | 5.05E+04 | -5.28E+04 | 5.03E+04 | -1.06E+06 | 1.01E+06 |
| 1/15 | -195. | -9.51E+04 | 8.53E+04 | -9.48E+04 | 8.52E+04 | -1.42E+06 | 1.28E+06 |
| 1/10 | 407. | -2.04E+05 | 1.44E+05 | -2.03E+05 | 1.43E+05 | -2.03E+06 | 1.43E+06 |

Table Q-919. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-920. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.67 | -2.97E+03 | 2.99E+03 | -2.90E+03 | 2.86E+03 | -1.74E+05 | 1.71E+05 |
| 1/20 | 176. | -3.02E+04 | 3.04E+04 | -3.03E+04 | 2.95E+04 | -6.10E+05 | 5.86E+05 |
| 1/15 | 425. | -5.38E+04 | 5.27E+04 | -5.41E+04 | 5.16E+04 | -8.18E+05 | 7.68E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

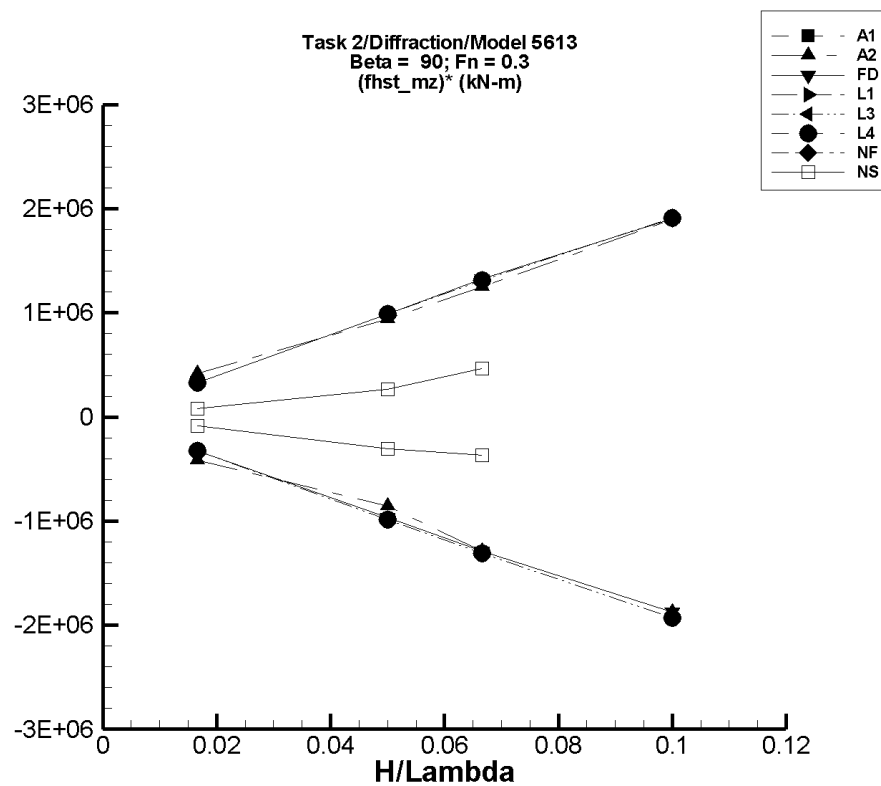


Figure Q-116. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-921. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-922. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.23 | -7.59E+03 | 7.65E+03 | -6.94E+03 | 6.94E+03 | -4.17E+05 | 4.16E+05 |
| 1/20 | -2.34E+03 | -2.64E+05 | 1.86E+05 | -4.51E+04 | 4.47E+04 | -8.55E+05 | 9.41E+05 |
| 1/15 | 1.36E+03 | -1.05E+05 | 2.10E+05 | -8.45E+04 | 8.49E+04 | -1.29E+06 | 1.25E+06 |
| 1/10 | -1.12E+03 | -3.13E+05 | 2.41E+05 | -1.89E+05 | 1.88E+05 | -1.88E+06 | 1.89E+06 |

Table Q-923. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -26.3 | -5.77E+03 | 5.77E+03 | -5.47E+03 | 5.48E+03 | -3.27E+05 | 3.30E+05 |
| 1/20 | -631. | -5.14E+04 | 5.14E+04 | -4.89E+04 | 4.90E+04 | -9.66E+05 | 9.92E+05 |
| 1/15 | -1.28E+03 | -9.14E+04 | 9.14E+04 | -8.72E+04 | 8.73E+04 | -1.29E+06 | 1.33E+06 |
| 1/10 | -1.21E+03 | -2.06E+05 | 2.05E+05 | -1.89E+05 | 1.89E+05 | -1.87E+06 | 1.90E+06 |

Table Q-924. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-925. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.93E-02 | -5.58E+03 | 5.58E+03 | -5.48E+03 | 5.48E+03 | -3.29E+05 | 3.29E+05 |
| 1/20 | -78.9 | -5.05E+04 | 5.05E+04 | -4.95E+04 | 4.95E+04 | -9.88E+05 | 9.91E+05 |
| 1/15 | -191. | -8.90E+04 | 8.91E+04 | -8.74E+04 | 8.75E+04 | -1.31E+06 | 1.31E+06 |
| 1/10 | 1.08E+03 | -1.98E+05 | 1.98E+05 | -1.92E+05 | 1.92E+05 | -1.93E+06 | 1.91E+06 |

Table Q-926. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.93E-02 | -5.58E+03 | 5.58E+03 | -5.48E+03 | 5.48E+03 | -3.29E+05 | 3.29E+05 |
| 1/20 | -78.9 | -5.05E+04 | 5.05E+04 | -4.95E+04 | 4.95E+04 | -9.88E+05 | 9.91E+05 |
| 1/15 | -191. | -8.90E+04 | 8.91E+04 | -8.74E+04 | 8.75E+04 | -1.31E+06 | 1.31E+06 |
| 1/10 | 1.08E+03 | -1.98E+05 | 1.98E+05 | -1.92E+05 | 1.92E+05 | -1.93E+06 | 1.91E+06 |

Table Q-927. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-928. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.20 | -1.45E+03 | 1.42E+03 | -1.39E+03 | 1.37E+03 | -8.34E+04 | 8.24E+04 |
| 1/20 | 831. | -1.52E+04 | 1.48E+04 | -1.45E+04 | 1.42E+04 | -3.07E+05 | 2.67E+05 |
| 1/15 | 1.06E+03 | -2.58E+04 | 3.35E+04 | -2.35E+04 | 3.19E+04 | -3.68E+05 | 4.63E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

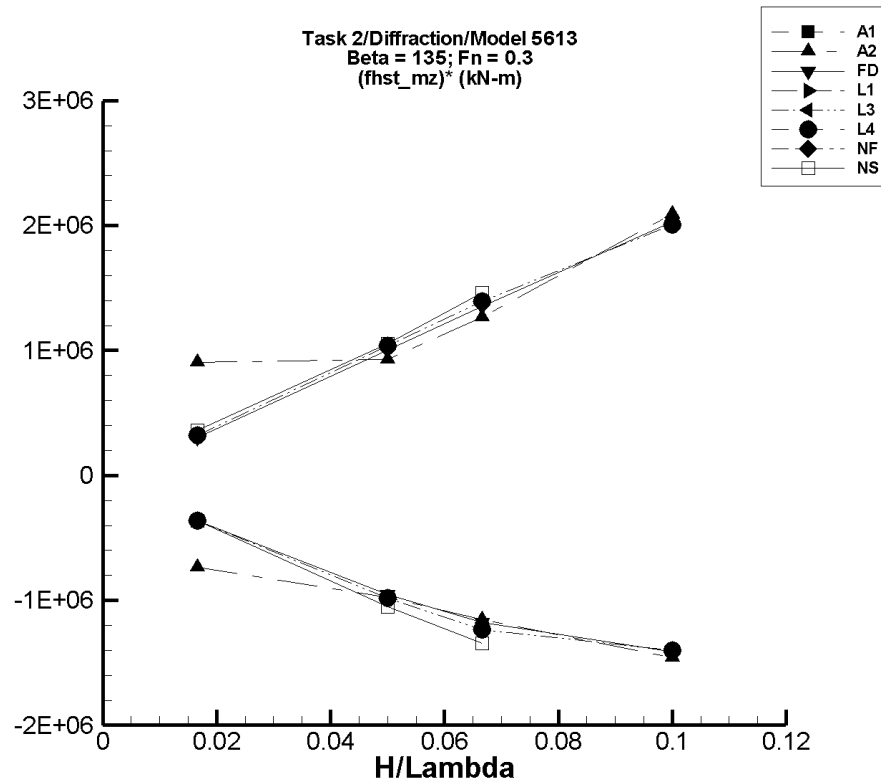


Figure Q-117. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-929. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-930. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 125. | -1.55E+04 | 1.68E+04 | -1.21E+04 | 1.52E+04 | -7.32E+05 | 9.06E+05 |
| 1/20 | -778. | -5.20E+04 | 5.53E+04 | -4.94E+04 | 4.57E+04 | -9.73E+05 | 9.30E+05 |
| 1/15 | 220. | -9.19E+04 | 9.63E+04 | -7.67E+04 | 8.48E+04 | -1.15E+06 | 1.27E+06 |
| 1/10 | -2.17E+03 | -1.60E+05 | 2.26E+05 | -1.48E+05 | 2.07E+05 | -1.46E+06 | 2.09E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-931. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 30.7 | -6.16E+03 | 5.40E+03 | -6.04E+03 | 5.06E+03 | -3.64E+05 | 3.02E+05 |
| 1/20 | 595. | -5.03E+04 | 5.34E+04 | -4.69E+04 | 5.08E+04 | -9.50E+05 | 1.00E+06 |
| 1/15 | 921. | -8.67E+04 | 9.56E+04 | -7.74E+04 | 9.10E+04 | -1.17E+06 | 1.35E+06 |
| 1/10 | 814. | -1.47E+05 | 2.05E+05 | -1.40E+05 | 2.04E+05 | -1.41E+06 | 2.03E+06 |

Table Q-932. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-933. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -15.8 | -6.01E+03 | 5.45E+03 | -6.01E+03 | 5.35E+03 | -3.60E+05 | 3.22E+05 |
| 1/20 | 101. | -5.04E+04 | 5.30E+04 | -4.89E+04 | 5.20E+04 | -9.80E+05 | 1.04E+06 |
| 1/15 | 73.3 | -8.53E+04 | 9.51E+04 | -8.22E+04 | 9.30E+04 | -1.23E+06 | 1.39E+06 |
| 1/10 | 153. | -1.44E+05 | 2.03E+05 | -1.40E+05 | 2.01E+05 | -1.40E+06 | 2.01E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-934. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -15.8 | -6.01E+03 | 5.45E+03 | -6.01E+03 | 5.35E+03 | -3.60E+05 | 3.22E+05 |
| 1/20 | 101. | -5.04E+04 | 5.30E+04 | -4.89E+04 | 5.20E+04 | -9.80E+05 | 1.04E+06 |
| 1/15 | 73.3 | -8.53E+04 | 9.51E+04 | -8.22E+04 | 9.30E+04 | -1.23E+06 | 1.39E+06 |
| 1/10 | 153. | -1.44E+05 | 2.03E+05 | -1.40E+05 | 2.01E+05 | -1.40E+06 | 2.01E+06 |

Table Q-935. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-936. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ Mean (kN-m) | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.30 | -6.13E+03 | 6.21E+03 | -6.05E+03 | 5.98E+03 | -3.63E+05 | 3.58E+05 |
| 1/20 | 796. | -5.38E+04 | 5.55E+04 | -5.17E+04 | 5.36E+04 | -1.05E+06 | 1.06E+06 |
| 1/15 | 629. | -9.14E+04 | 1.00E+05 | -8.90E+04 | 9.79E+04 | -1.35E+06 | 1.46E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

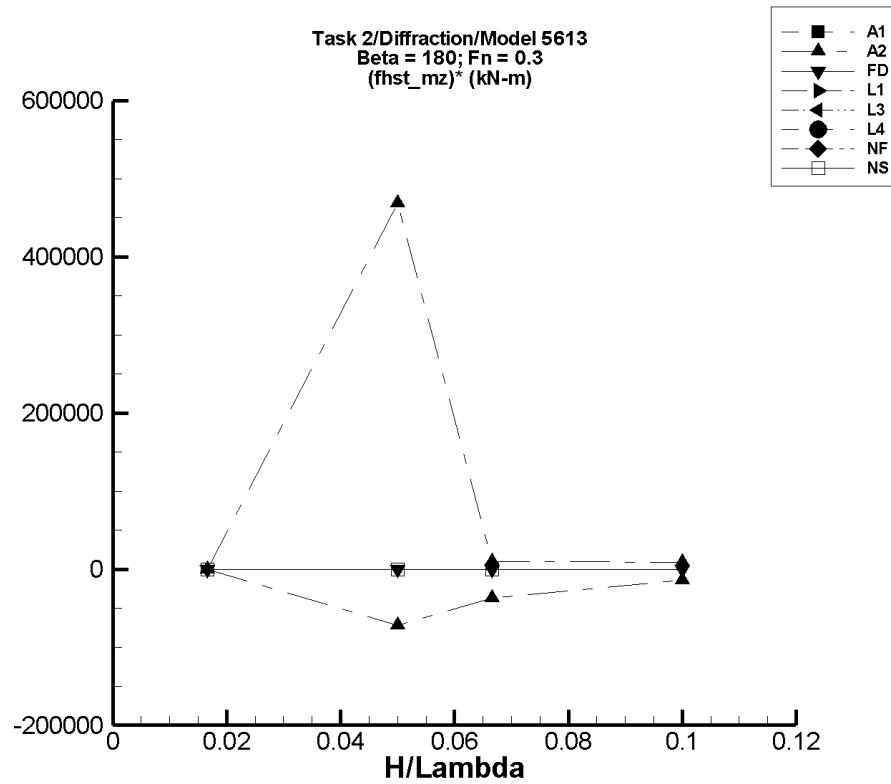


Figure Q-118. Minimum and maximum of filtered $(M_z^{\text{hst}} - \langle M_z^{\text{hst}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-937. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-938. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.69E-04 | -5.26E-03 | 9.20E-03 | -1.63E-03 | 3.12E-03 | -0.126 | 0.159 |
| 1/20 | 1.46E+03 | -1.59E-02 | 1.87E+05 | -2.14E+03 | 2.49E+04 | -7.19E+04 | 4.69E+05 |
| 1/15 | -386. | -2.12E+04 | 75.4 | -2.83E+03 | 242. | -3.67E+04 | 9.41E+03 |
| 1/10 | -108. | -1.08E+04 | 5.17E+03 | -1.48E+03 | 784. | -1.38E+04 | 8.92E+03 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-939. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.84E-03 | -9.05E-02 | 0.112 | -3.25E-02 | 4.25E-02 | -2.36 | 2.14 |
| 1/20 | 3.43E-04 | -0.467 | 0.334 | -7.12E-02 | 0.116 | -1.43 | 2.32 |
| 1/15 | -3.38E-03 | -0.887 | 0.716 | -0.110 | 0.103 | -1.61 | 1.60 |
| 1/10 | -0.124 | -2.64 | 1.66 | -1.30 | 0.566 | -11.7 | 6.91 |

Table Q-940. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-941. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-942. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-943. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-944. Minimum and Maximum of Variables M_z^{hst} and $(M_z^{\text{hst}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{hst}} \rangle$ | Unfiltered M_z^{hst} | | Filtered M_z^{hst} | | Filtered $(M_z^{\text{hst}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.58E-03 | -6.03E-02 | 4.79E-02 | -1.44E-02 | 2.36E-02 | -1.08 | 1.20 |
| 1/20 | 9.88E-04 | -8.15E-02 | 8.33E-02 | -2.86E-02 | 3.18E-02 | -0.591 | 0.616 |
| 1/15 | -1.20E-02 | -0.117 | 8.01E-02 | -4.68E-02 | 3.24E-02 | -0.521 | 0.667 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

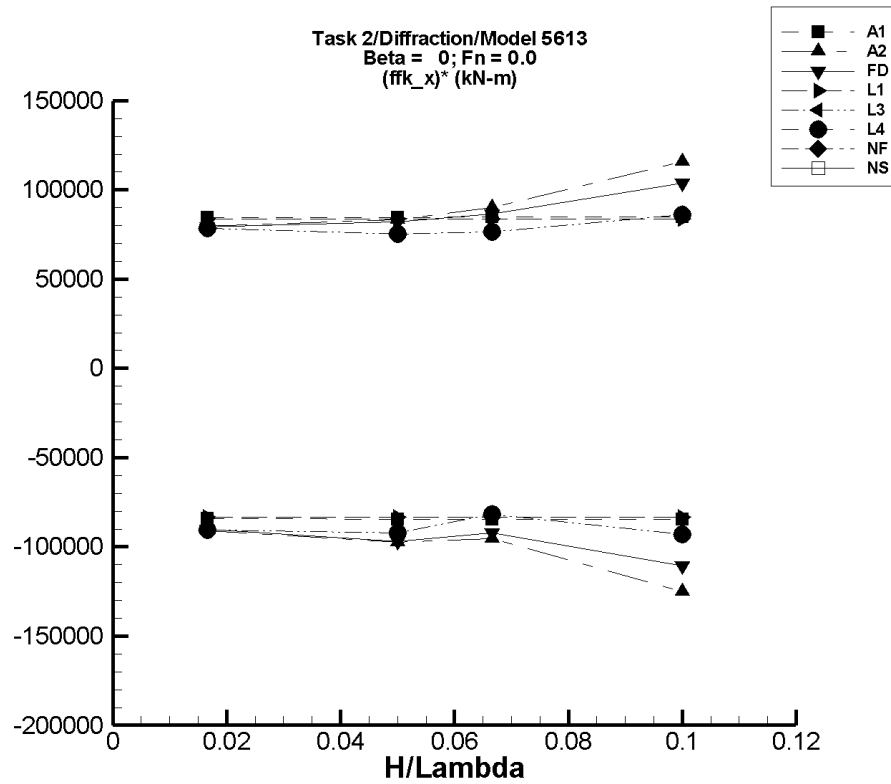


Figure Q-119. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-945. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.06 | -1.42E+03 | 1.42E+03 | -1.40E+03 | 1.41E+03 | -8.42E+04 | 8.44E+04 |
| 1/20 | -3.20 | -4.27E+03 | 4.27E+03 | -4.22E+03 | 4.23E+03 | -8.44E+04 | 8.46E+04 |
| 1/15 | -4.27 | -5.70E+03 | 5.70E+03 | -5.64E+03 | 5.65E+03 | -8.45E+04 | 8.48E+04 |
| 1/10 | -6.40 | -8.55E+03 | 8.55E+03 | -8.46E+03 | 8.47E+03 | -8.45E+04 | 8.48E+04 |

Table Q-946. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.68 | -1.54E+03 | 1.34E+03 | -1.52E+03 | 1.33E+03 | -9.11E+04 | 7.98E+04 |
| 1/20 | 62.4 | -5.05E+03 | 4.31E+03 | -4.82E+03 | 4.23E+03 | -9.76E+04 | 8.33E+04 |
| 1/15 | 107. | -6.39E+03 | 6.23E+03 | -6.26E+03 | 6.12E+03 | -9.55E+04 | 9.02E+04 |
| 1/10 | 344. | -1.27E+04 | 1.23E+04 | -1.22E+04 | 1.19E+04 | -1.25E+05 | 1.16E+05 |

Table Q-947. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.99 | -1.53E+03 | 1.33E+03 | -1.50E+03 | 1.32E+03 | -9.04E+04 | 7.92E+04 |
| 1/20 | 18.4 | -5.06E+03 | 4.18E+03 | -4.83E+03 | 4.12E+03 | -9.70E+04 | 8.20E+04 |
| 1/15 | 17.6 | -6.24E+03 | 5.90E+03 | -6.13E+03 | 5.80E+03 | -9.22E+04 | 8.67E+04 |
| 1/10 | 21.4 | -1.13E+04 | 1.06E+04 | -1.11E+04 | 1.04E+04 | -1.11E+05 | 1.04E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-948. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.27 | -1.40E+03 | 1.40E+03 | -1.39E+03 | 1.39E+03 | -8.35E+04 | 8.37E+04 |
| 1/20 | -3.80 | -4.20E+03 | 4.19E+03 | -4.18E+03 | 4.18E+03 | -8.35E+04 | 8.37E+04 |
| 1/15 | -5.06 | -5.59E+03 | 5.59E+03 | -5.57E+03 | 5.57E+03 | -8.35E+04 | 8.37E+04 |
| 1/10 | -7.59 | -8.39E+03 | 8.39E+03 | -8.36E+03 | 8.36E+03 | -8.35E+04 | 8.37E+04 |

Table Q-949. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.426 | -1.52E+03 | 1.31E+03 | -1.51E+03 | 1.31E+03 | -9.05E+04 | 7.83E+04 |
| 1/20 | 12.6 | -4.70E+03 | 3.79E+03 | -4.60E+03 | 3.77E+03 | -9.22E+04 | 7.51E+04 |
| 1/15 | 11.2 | -5.48E+03 | 5.14E+03 | -5.44E+03 | 5.10E+03 | -8.17E+04 | 7.64E+04 |
| 1/10 | -0.647 | -9.39E+03 | 8.68E+03 | -9.30E+03 | 8.63E+03 | -9.30E+04 | 8.63E+04 |

Table Q-950. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.426 | -1.52E+03 | 1.31E+03 | -1.51E+03 | 1.31E+03 | -9.05E+04 | 7.83E+04 |
| 1/20 | 12.6 | -4.70E+03 | 3.79E+03 | -4.60E+03 | 3.77E+03 | -9.22E+04 | 7.51E+04 |
| 1/15 | 11.2 | -5.48E+03 | 5.14E+03 | -5.44E+03 | 5.10E+03 | -8.17E+04 | 7.64E+04 |
| 1/10 | -0.647 | -9.39E+03 | 8.68E+03 | -9.30E+03 | 8.63E+03 | -9.30E+04 | 8.63E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-951. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-952. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

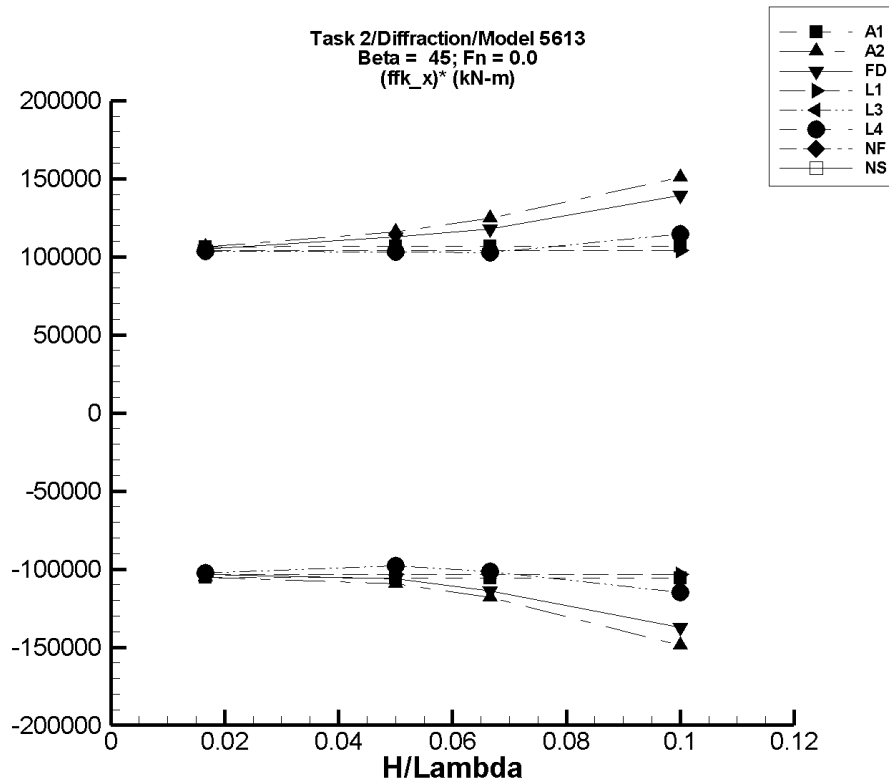


Figure Q-120. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-953. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.40 | -1.77E+03 | 1.77E+03 | -1.76E+03 | 1.77E+03 | -1.05E+05 | 1.06E+05 |
| 1/20 | -4.20 | -5.34E+03 | 5.34E+03 | -5.28E+03 | 5.33E+03 | -1.06E+05 | 1.07E+05 |
| 1/15 | -5.61 | -7.12E+03 | 7.12E+03 | -7.05E+03 | 7.11E+03 | -1.06E+05 | 1.07E+05 |
| 1/10 | -8.42 | -1.07E+04 | 1.07E+04 | -1.06E+04 | 1.07E+04 | -1.06E+05 | 1.07E+05 |

Table Q-954. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.47 | -1.77E+03 | 1.78E+03 | -1.76E+03 | 1.78E+03 | -1.05E+05 | 1.06E+05 |
| 1/20 | 47.1 | -5.49E+03 | 5.90E+03 | -5.42E+03 | 5.84E+03 | -1.09E+05 | 1.16E+05 |
| 1/15 | 78.5 | -7.92E+03 | 8.45E+03 | -7.79E+03 | 8.38E+03 | -1.18E+05 | 1.24E+05 |
| 1/10 | 115. | -1.51E+04 | 1.58E+04 | -1.48E+04 | 1.52E+04 | -1.49E+05 | 1.51E+05 |

Table Q-955. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.10E-02 | -1.74E+03 | 1.77E+03 | -1.72E+03 | 1.75E+03 | -1.03E+05 | 1.05E+05 |
| 1/20 | -14.9 | -5.40E+03 | 5.69E+03 | -5.33E+03 | 5.62E+03 | -1.06E+05 | 1.13E+05 |
| 1/15 | -27.2 | -7.72E+03 | 7.93E+03 | -7.62E+03 | 7.82E+03 | -1.14E+05 | 1.18E+05 |
| 1/10 | -25.7 | -1.39E+04 | 1.41E+04 | -1.37E+04 | 1.39E+04 | -1.37E+05 | 1.39E+05 |

Table Q-956. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.660 | -1.73E+03 | 1.73E+03 | -1.73E+03 | 1.73E+03 | -1.04E+05 | 1.04E+05 |
| 1/20 | -1.98 | -5.20E+03 | 5.20E+03 | -5.18E+03 | 5.20E+03 | -1.04E+05 | 1.04E+05 |
| 1/15 | -2.64 | -6.93E+03 | 6.93E+03 | -6.91E+03 | 6.94E+03 | -1.04E+05 | 1.04E+05 |
| 1/10 | -3.96 | -1.04E+04 | 1.04E+04 | -1.04E+04 | 1.04E+04 | -1.04E+05 | 1.04E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-957. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.638 | -1.72E+03 | 1.73E+03 | -1.71E+03 | 1.73E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | -9.61 | -4.92E+03 | 5.16E+03 | -4.90E+03 | 5.14E+03 | -9.79E+04 | 1.03E+05 |
| 1/15 | -3.41 | -6.81E+03 | 6.87E+03 | -6.77E+03 | 6.85E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | 0.739 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

Table Q-958. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.638 | -1.72E+03 | 1.73E+03 | -1.71E+03 | 1.73E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | -9.61 | -4.92E+03 | 5.16E+03 | -4.90E+03 | 5.14E+03 | -9.79E+04 | 1.03E+05 |
| 1/15 | -3.41 | -6.81E+03 | 6.87E+03 | -6.77E+03 | 6.85E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | 0.739 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

Table Q-959. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-960. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

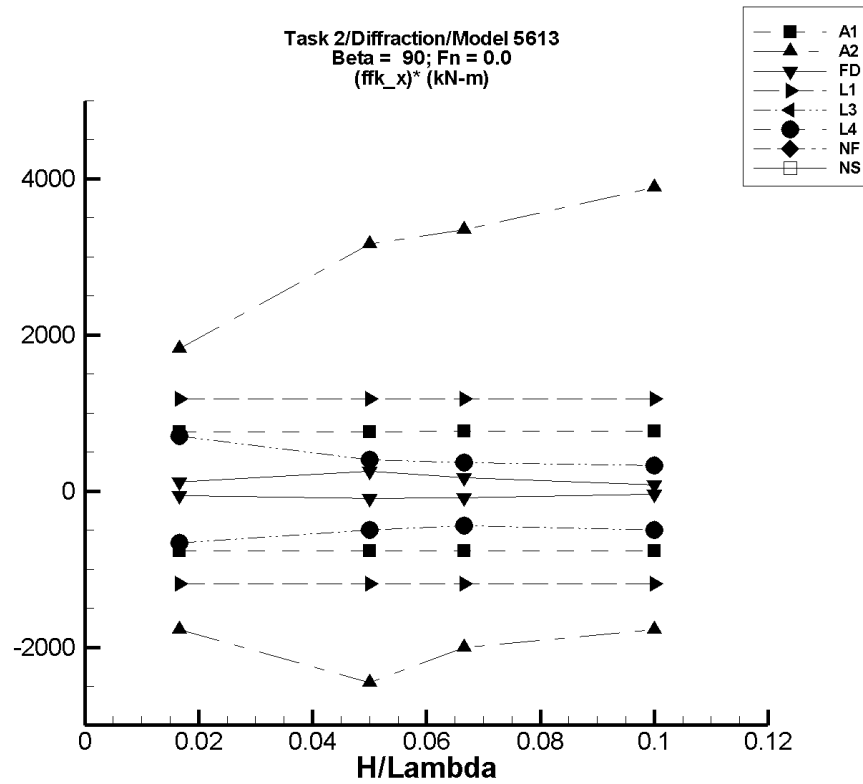


Figure Q-121. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-961. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.10E-03 | -12.8 | 12.8 | -12.7 | 12.7 | -761. | 761. |
| 1/20 | 2.44E-02 | -38.5 | 38.6 | -38.1 | 38.2 | -763. | 763. |
| 1/15 | 3.25E-02 | -51.5 | 51.5 | -50.9 | 50.9 | -764. | 764. |
| 1/10 | 4.88E-02 | -77.2 | 77.2 | -76.4 | 76.4 | -764. | 764. |

Table Q-962. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.82 | -27.0 | 33.5 | -26.8 | 33.2 | -1.78E+03 | 1.83E+03 |
| 1/20 | 50.5 | -405. | 228. | -72.2 | 209. | -2.45E+03 | 3.16E+03 |
| 1/15 | 115. | -61.7 | 341. | -18.5 | 338. | -2.01E+03 | 3.34E+03 |
| 1/10 | 171. | -79.7 | 618. | -6.44 | 559. | -1.77E+03 | 3.89E+03 |

Table Q-963. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.27 | 0.131 | 3.28 | 0.238 | 3.20 | -62.1 | 116. |
| 1/20 | 5.39 | -0.780 | 18.6 | 0.652 | 17.9 | -94.7 | 250. |
| 1/15 | 6.81 | -4.21 | 20.2 | 0.857 | 18.0 | -89.2 | 167. |
| 1/10 | 3.67 | -11.4 | 21.8 | -0.616 | 11.7 | -42.9 | 80.6 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-964. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.19E-03 | -19.8 | 19.8 | -19.7 | 19.7 | -1.18E+03 | 1.18E+03 |
| 1/20 | 2.45E-02 | -59.3 | 59.3 | -59.1 | 59.1 | -1.18E+03 | 1.18E+03 |
| 1/15 | 3.27E-02 | -79.1 | 79.1 | -78.8 | 78.8 | -1.18E+03 | 1.18E+03 |
| 1/10 | 4.91E-02 | -119. | 119. | -118. | 118. | -1.18E+03 | 1.18E+03 |

Table Q-965. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.673 | -10.3 | 12.5 | -10.3 | 12.4 | -660. | 704. |
| 1/20 | -1.25 | -26.9 | 20.3 | -26.4 | 18.8 | -502. | 401. |
| 1/15 | -5.15 | -35.7 | 20.2 | -34.9 | 18.9 | -446. | 360. |
| 1/10 | -14.5 | -102. | 22.4 | -64.2 | 17.9 | -497. | 324. |

Table Q-966. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.673 | -10.3 | 12.5 | -10.3 | 12.4 | -660. | 704. |
| 1/20 | -1.25 | -26.9 | 20.3 | -26.4 | 18.8 | -502. | 401. |
| 1/15 | -5.15 | -35.7 | 20.2 | -34.9 | 18.9 | -446. | 360. |
| 1/10 | -14.5 | -102. | 22.4 | -64.2 | 17.9 | -497. | 324. |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-967. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-968. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

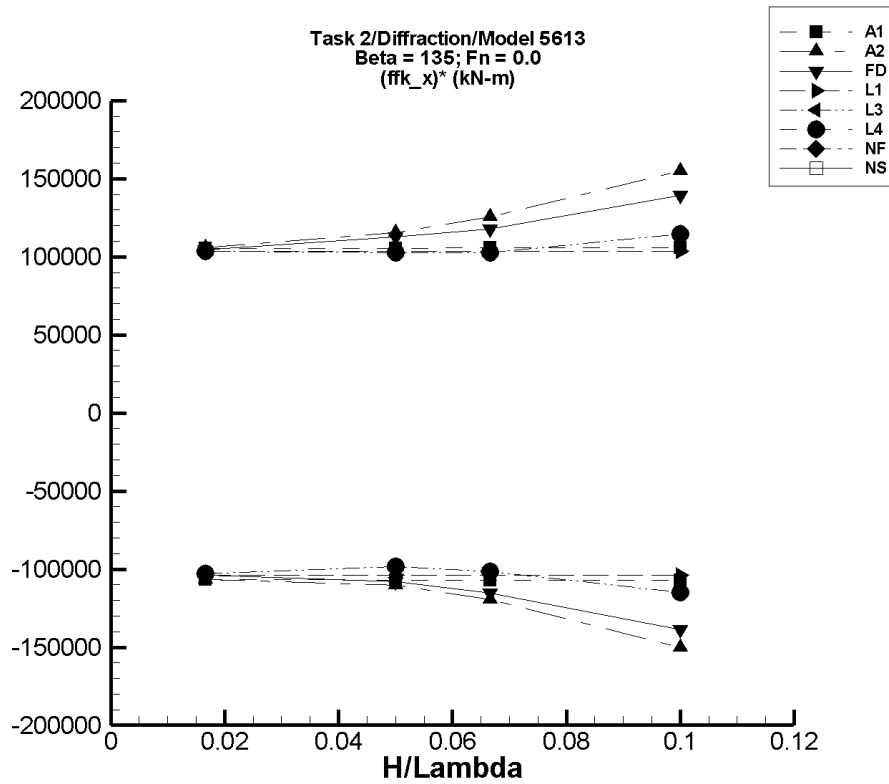


Figure Q-122. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-969. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.45 | -1.77E+03 | 1.77E+03 | -1.78E+03 | 1.76E+03 | -1.07E+05 | 1.05E+05 |
| 1/20 | 4.36 | -5.34E+03 | 5.34E+03 | -5.34E+03 | 5.28E+03 | -1.07E+05 | 1.06E+05 |
| 1/15 | 5.83 | -7.12E+03 | 7.12E+03 | -7.13E+03 | 7.05E+03 | -1.07E+05 | 1.06E+05 |
| 1/10 | 8.74 | -1.07E+04 | 1.07E+04 | -1.07E+04 | 1.06E+04 | -1.07E+05 | 1.06E+05 |

Table Q-970. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 4.51 | -1.77E+03 | 1.78E+03 | -1.77E+03 | 1.77E+03 | -1.07E+05 | 1.06E+05 |
| 1/20 | 49.0 | -5.49E+03 | 5.90E+03 | -5.48E+03 | 5.83E+03 | -1.10E+05 | 1.16E+05 |
| 1/15 | 103. | -7.92E+03 | 9.17E+03 | -7.85E+03 | 8.46E+03 | -1.19E+05 | 1.25E+05 |
| 1/10 | 84.7 | -1.51E+04 | 1.58E+04 | -1.50E+04 | 1.56E+04 | -1.50E+05 | 1.55E+05 |

Table Q-971. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.97 | -1.74E+03 | 1.77E+03 | -1.73E+03 | 1.75E+03 | -1.04E+05 | 1.05E+05 |
| 1/20 | -4.54 | -5.40E+03 | 5.69E+03 | -5.40E+03 | 5.62E+03 | -1.08E+05 | 1.13E+05 |
| 1/15 | -23.1 | -7.72E+03 | 7.93E+03 | -7.71E+03 | 7.83E+03 | -1.15E+05 | 1.18E+05 |
| 1/10 | -51.5 | -1.39E+04 | 1.41E+04 | -1.39E+04 | 1.39E+04 | -1.39E+05 | 1.40E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-972. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.83 | -1.73E+03 | 1.73E+03 | -1.73E+03 | 1.73E+03 | -1.04E+05 | 1.03E+05 |
| 1/20 | 5.50 | -5.20E+03 | 5.20E+03 | -5.19E+03 | 5.18E+03 | -1.04E+05 | 1.03E+05 |
| 1/15 | 7.33 | -6.93E+03 | 6.93E+03 | -6.92E+03 | 6.91E+03 | -1.04E+05 | 1.03E+05 |
| 1/10 | 11.0 | -1.04E+04 | 1.04E+04 | -1.04E+04 | 1.04E+04 | -1.04E+05 | 1.03E+05 |

Table Q-973. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.08 | -1.72E+03 | 1.73E+03 | -1.71E+03 | 1.73E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | 0.349 | -4.92E+03 | 5.16E+03 | -4.91E+03 | 5.14E+03 | -9.83E+04 | 1.03E+05 |
| 1/15 | 1.16 | -6.81E+03 | 6.87E+03 | -6.77E+03 | 6.85E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | -0.451 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

Table Q-974. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.08 | -1.72E+03 | 1.73E+03 | -1.71E+03 | 1.73E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | 0.349 | -4.92E+03 | 5.16E+03 | -4.91E+03 | 5.14E+03 | -9.83E+04 | 1.03E+05 |
| 1/15 | 1.16 | -6.81E+03 | 6.87E+03 | -6.77E+03 | 6.85E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | -0.451 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-975. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-976. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

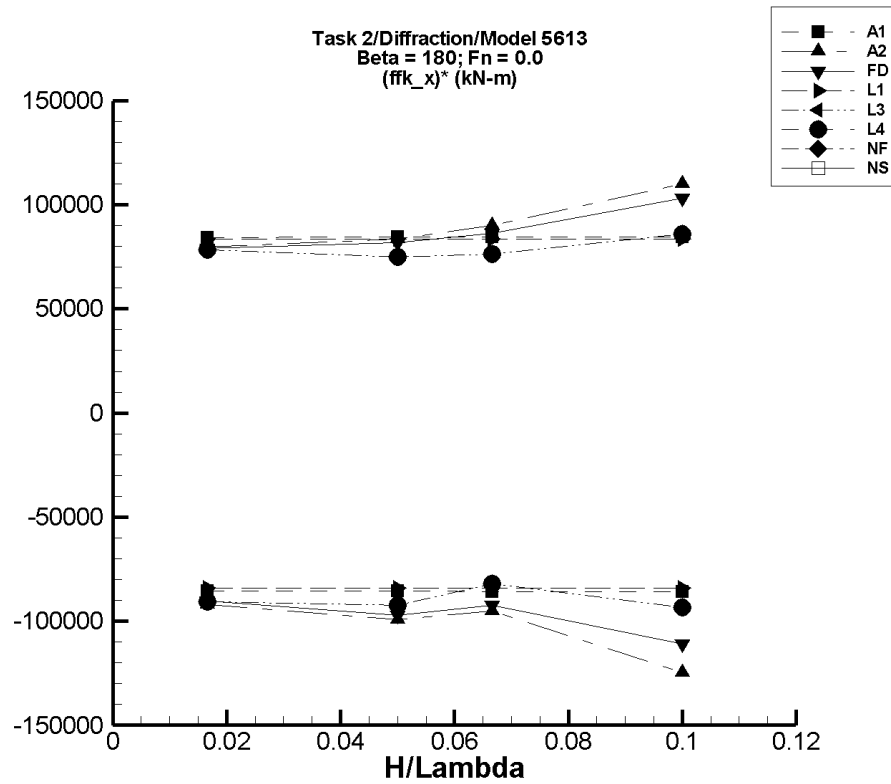


Figure Q-123. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-977. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.21 | -1.42E+03 | 1.42E+03 | -1.42E+03 | 1.40E+03 | -8.54E+04 | 8.42E+04 |
| 1/20 | 3.64 | -4.27E+03 | 4.27E+03 | -4.28E+03 | 4.22E+03 | -8.56E+04 | 8.44E+04 |
| 1/15 | 4.85 | -5.70E+03 | 5.70E+03 | -5.71E+03 | 5.64E+03 | -8.58E+04 | 8.45E+04 |
| 1/10 | 7.28 | -8.55E+03 | 8.55E+03 | -8.57E+03 | 8.46E+03 | -8.58E+04 | 8.45E+04 |

Table Q-978. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.07 | -1.54E+03 | 1.34E+03 | -1.53E+03 | 1.33E+03 | -9.21E+04 | 7.97E+04 |
| 1/20 | 57.8 | -5.43E+03 | 4.31E+03 | -4.90E+03 | 4.23E+03 | -9.91E+04 | 8.34E+04 |
| 1/15 | 114. | -6.33E+03 | 6.23E+03 | -6.22E+03 | 6.12E+03 | -9.51E+04 | 9.02E+04 |
| 1/10 | 296. | -1.26E+04 | 1.22E+04 | -1.22E+04 | 1.13E+04 | -1.25E+05 | 1.10E+05 |

Table Q-979. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.42 | -1.53E+03 | 1.33E+03 | -1.51E+03 | 1.32E+03 | -9.05E+04 | 7.92E+04 |
| 1/20 | 31.1 | -5.06E+03 | 4.18E+03 | -4.83E+03 | 4.12E+03 | -9.72E+04 | 8.17E+04 |
| 1/15 | 39.5 | -6.24E+03 | 5.90E+03 | -6.12E+03 | 5.80E+03 | -9.24E+04 | 8.64E+04 |
| 1/10 | 51.4 | -1.13E+04 | 1.06E+04 | -1.11E+04 | 1.04E+04 | -1.11E+05 | 1.03E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-980. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.02 | -1.40E+03 | 1.40E+03 | -1.40E+03 | 1.39E+03 | -8.41E+04 | 8.35E+04 |
| 1/20 | 3.06 | -4.20E+03 | 4.20E+03 | -4.20E+03 | 4.18E+03 | -8.41E+04 | 8.35E+04 |
| 1/15 | 4.08 | -5.59E+03 | 5.59E+03 | -5.60E+03 | 5.57E+03 | -8.41E+04 | 8.35E+04 |
| 1/10 | 6.12 | -8.39E+03 | 8.39E+03 | -8.40E+03 | 8.36E+03 | -8.41E+04 | 8.35E+04 |

Table Q-981. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.54 | -1.52E+03 | 1.31E+03 | -1.51E+03 | 1.31E+03 | -9.06E+04 | 7.82E+04 |
| 1/20 | 27.3 | -4.70E+03 | 3.79E+03 | -4.60E+03 | 3.77E+03 | -9.25E+04 | 7.48E+04 |
| 1/15 | 26.9 | -5.48E+03 | 5.14E+03 | -5.44E+03 | 5.11E+03 | -8.19E+04 | 7.62E+04 |
| 1/10 | 31.0 | -9.38E+03 | 8.68E+03 | -9.30E+03 | 8.63E+03 | -9.33E+04 | 8.60E+04 |

Table Q-982. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.54 | -1.52E+03 | 1.31E+03 | -1.51E+03 | 1.31E+03 | -9.06E+04 | 7.82E+04 |
| 1/20 | 27.3 | -4.70E+03 | 3.79E+03 | -4.60E+03 | 3.77E+03 | -9.25E+04 | 7.48E+04 |
| 1/15 | 26.9 | -5.48E+03 | 5.14E+03 | -5.44E+03 | 5.11E+03 | -8.19E+04 | 7.62E+04 |
| 1/10 | 31.0 | -9.38E+03 | 8.68E+03 | -9.30E+03 | 8.63E+03 | -9.33E+04 | 8.60E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–983. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–984. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

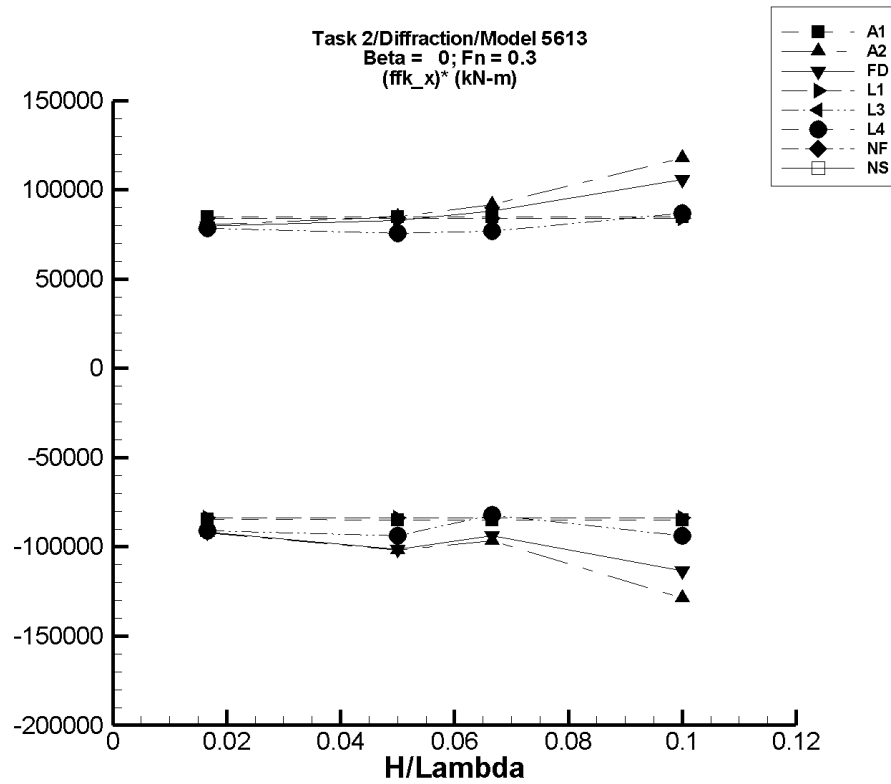


Figure Q-124. Minimum and maximum of filtered $(F_x^{fk} - \langle F_x^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–985. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.31E-02 | -1.41E+03 | 1.41E+03 | -1.41E+03 | 1.41E+03 | -8.47E+04 | 8.47E+04 |
| 1/20 | -9.90E-02 | -4.25E+03 | 4.25E+03 | -4.25E+03 | 4.25E+03 | -8.50E+04 | 8.50E+04 |
| 1/15 | -0.132 | -5.67E+03 | 5.67E+03 | -5.67E+03 | 5.67E+03 | -8.51E+04 | 8.51E+04 |
| 1/10 | -0.198 | -8.51E+03 | 8.51E+03 | -8.51E+03 | 8.51E+03 | -8.51E+04 | 8.51E+04 |

Table Q–986. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.33 | -1.54E+03 | 1.34E+03 | -1.54E+03 | 1.34E+03 | -9.24E+04 | 8.04E+04 |
| 1/20 | 58.1 | -5.05E+03 | 4.31E+03 | -5.04E+03 | 4.30E+03 | -1.02E+05 | 8.49E+04 |
| 1/15 | 112. | -6.38E+03 | 6.23E+03 | -6.34E+03 | 6.23E+03 | -9.67E+04 | 9.17E+04 |
| 1/10 | 299. | -1.27E+04 | 1.23E+04 | -1.26E+04 | 1.21E+04 | -1.29E+05 | 1.18E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-987. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.55 | -1.53E+03 | 1.33E+03 | -1.53E+03 | 1.33E+03 | -9.17E+04 | 7.98E+04 |
| 1/20 | 23.9 | -5.06E+03 | 4.18E+03 | -5.05E+03 | 4.17E+03 | -1.01E+05 | 8.30E+04 |
| 1/15 | 25.4 | -6.24E+03 | 5.90E+03 | -6.23E+03 | 5.89E+03 | -9.39E+04 | 8.80E+04 |
| 1/10 | 40.6 | -1.13E+04 | 1.06E+04 | -1.13E+04 | 1.06E+04 | -1.14E+05 | 1.06E+05 |

Table Q-988. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.941 | -1.40E+03 | 1.40E+03 | -1.40E+03 | 1.40E+03 | -8.38E+04 | 8.39E+04 |
| 1/20 | -2.82 | -4.20E+03 | 4.20E+03 | -4.19E+03 | 4.19E+03 | -8.38E+04 | 8.39E+04 |
| 1/15 | -3.77 | -5.59E+03 | 5.59E+03 | -5.59E+03 | 5.59E+03 | -8.38E+04 | 8.39E+04 |
| 1/10 | -5.65 | -8.39E+03 | 8.39E+03 | -8.39E+03 | 8.39E+03 | -8.38E+04 | 8.39E+04 |

Table Q-989. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.912 | -1.52E+03 | 1.31E+03 | -1.52E+03 | 1.31E+03 | -9.10E+04 | 7.85E+04 |
| 1/20 | 7.06 | -4.70E+03 | 3.79E+03 | -4.69E+03 | 3.79E+03 | -9.40E+04 | 7.56E+04 |
| 1/15 | -2.99 | -5.48E+03 | 5.14E+03 | -5.47E+03 | 5.13E+03 | -8.21E+04 | 7.71E+04 |
| 1/10 | -7.38 | -9.39E+03 | 8.68E+03 | -9.38E+03 | 8.68E+03 | -9.37E+04 | 8.69E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-990. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.912 | -1.52E+03 | 1.31E+03 | -1.52E+03 | 1.31E+03 | -9.10E+04 | 7.85E+04 |
| 1/20 | 7.06 | -4.70E+03 | 3.79E+03 | -4.69E+03 | 3.79E+03 | -9.40E+04 | 7.56E+04 |
| 1/15 | -2.99 | -5.48E+03 | 5.14E+03 | -5.47E+03 | 5.13E+03 | -8.21E+04 | 7.71E+04 |
| 1/10 | -7.38 | -9.39E+03 | 8.68E+03 | -9.38E+03 | 8.68E+03 | -9.37E+04 | 8.69E+04 |

Table Q-991. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-992. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|----------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

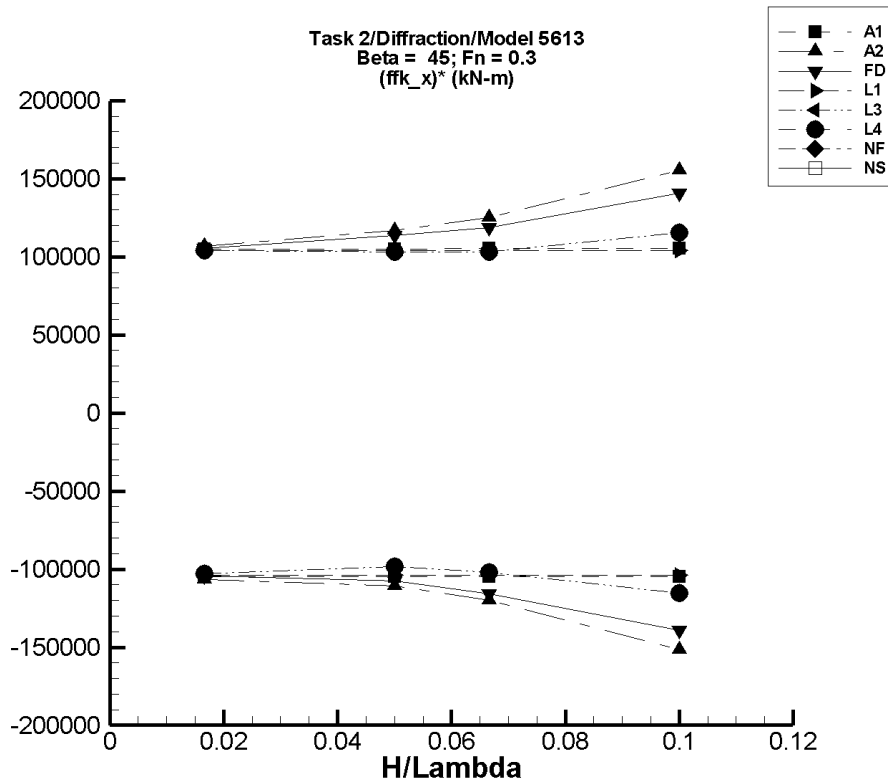


Figure Q-125. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–993. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.424 | -1.75E+03 | 1.75E+03 | -1.74E+03 | 1.75E+03 | -1.05E+05 | 1.05E+05 |
| 1/20 | 1.28 | -5.25E+03 | 5.25E+03 | -5.24E+03 | 5.26E+03 | -1.05E+05 | 1.05E+05 |
| 1/15 | 1.70 | -7.01E+03 | 7.01E+03 | -7.00E+03 | 7.02E+03 | -1.05E+05 | 1.05E+05 |
| 1/10 | 2.56 | -1.05E+04 | 1.05E+04 | -1.05E+04 | 1.05E+04 | -1.05E+05 | 1.05E+05 |

Table Q–994. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.63 | -1.77E+03 | 1.78E+03 | -1.77E+03 | 1.78E+03 | -1.06E+05 | 1.07E+05 |
| 1/20 | 55.5 | -5.49E+03 | 5.90E+03 | -5.47E+03 | 5.89E+03 | -1.11E+05 | 1.17E+05 |
| 1/15 | 90.8 | -7.92E+03 | 8.45E+03 | -7.90E+03 | 8.44E+03 | -1.20E+05 | 1.25E+05 |
| 1/10 | 108. | -1.51E+04 | 1.58E+04 | -1.51E+04 | 1.56E+04 | -1.52E+05 | 1.55E+05 |

Table Q–995. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.15 | -1.74E+03 | 1.77E+03 | -1.74E+03 | 1.76E+03 | -1.04E+05 | 1.06E+05 |
| 1/20 | 3.73 | -5.40E+03 | 5.69E+03 | -5.38E+03 | 5.68E+03 | -1.08E+05 | 1.13E+05 |
| 1/15 | 8.23 | -7.72E+03 | 7.93E+03 | -7.70E+03 | 7.91E+03 | -1.16E+05 | 1.18E+05 |
| 1/10 | 26.1 | -1.39E+04 | 1.42E+04 | -1.39E+04 | 1.41E+04 | -1.39E+05 | 1.41E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-996. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} Min. Max. (kN) (kN) | | Filtered F_x^{fk} Min. Max. (kN) (kN) | | Filtered $(F_x^{\text{fk}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 0.226 | -1.73E+03 | 1.73E+03 | -1.73E+03 | 1.73E+03 | -1.04E+05 | 1.04E+05 |
| 1/20 | 0.679 | -5.20E+03 | 5.20E+03 | -5.19E+03 | 5.20E+03 | -1.04E+05 | 1.04E+05 |
| 1/15 | 0.905 | -6.93E+03 | 6.93E+03 | -6.93E+03 | 6.93E+03 | -1.04E+05 | 1.04E+05 |
| 1/10 | 1.36 | -1.04E+04 | 1.04E+04 | -1.04E+04 | 1.04E+04 | -1.04E+05 | 1.04E+05 |

Table Q-997. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} Min. Max. (kN) (kN) | | Filtered F_x^{fk} Min. Max. (kN) (kN) | | Filtered $(F_x^{\text{fk}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 1.12 | -1.72E+03 | 1.73E+03 | -1.72E+03 | 1.73E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | -0.131 | -4.92E+03 | 5.16E+03 | -4.92E+03 | 5.16E+03 | -9.84E+04 | 1.03E+05 |
| 1/15 | -6.30 | -6.81E+03 | 6.87E+03 | -6.80E+03 | 6.87E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | -17.2 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.16E+05 |

Table Q-998. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} Min. Max. (kN) (kN) | | Filtered F_x^{fk} Min. Max. (kN) (kN) | | Filtered $(F_x^{\text{fk}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 1.12 | -1.72E+03 | 1.73E+03 | -1.72E+03 | 1.73E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | -0.131 | -4.92E+03 | 5.16E+03 | -4.92E+03 | 5.16E+03 | -9.84E+04 | 1.03E+05 |
| 1/15 | -6.30 | -6.81E+03 | 6.87E+03 | -6.80E+03 | 6.87E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | -17.2 | -1.16E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.16E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-999. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1000. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

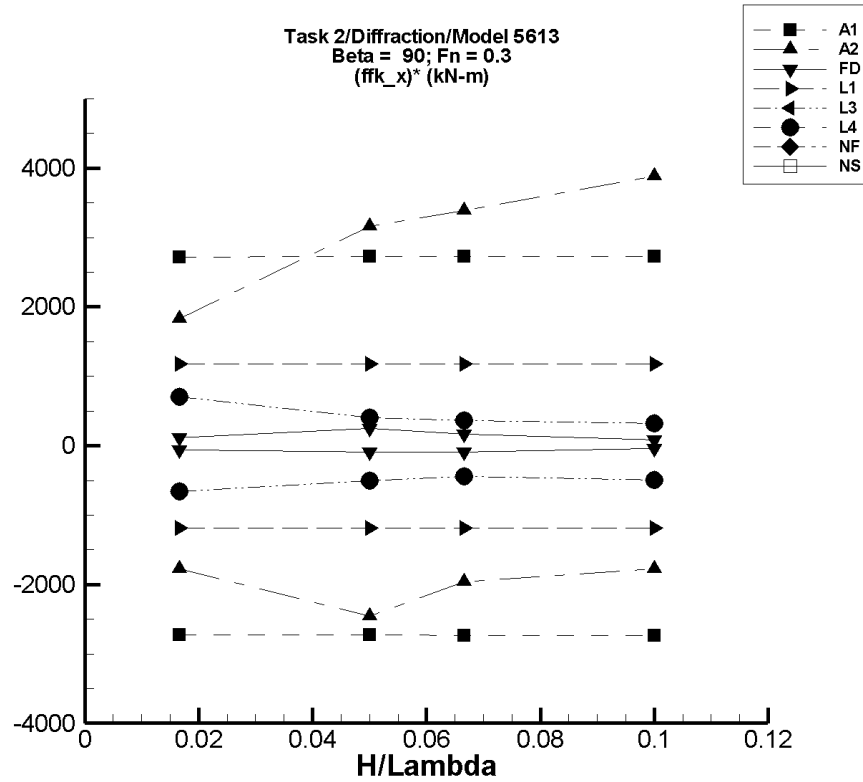


Figure Q-126. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1001. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.90E-02 | -45.8 | 45.8 | -45.3 | 45.3 | -2.72E+03 | 2.72E+03 |
| 1/20 | 8.71E-02 | -138. | 138. | -136. | 136. | -2.73E+03 | 2.73E+03 |
| 1/15 | 0.116 | -184. | 184. | -182. | 182. | -2.73E+03 | 2.73E+03 |
| 1/10 | 0.174 | -276. | 276. | -273. | 273. | -2.73E+03 | 2.73E+03 |

Table Q–1002. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.82 | -27.0 | 33.5 | -26.8 | 33.2 | -1.78E+03 | 1.83E+03 |
| 1/20 | 50.5 | -405. | 228. | -72.2 | 209. | -2.45E+03 | 3.16E+03 |
| 1/15 | 112. | -61.7 | 340. | -18.1 | 338. | -1.96E+03 | 3.39E+03 |
| 1/10 | 171. | -79.7 | 618. | -6.44 | 559. | -1.77E+03 | 3.89E+03 |

Table Q–1003. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.27 | 0.131 | 3.28 | 0.237 | 3.20 | -62.2 | 116. |
| 1/20 | 5.39 | -0.781 | 18.6 | 0.650 | 17.9 | -94.8 | 250. |
| 1/15 | 6.81 | -4.21 | 20.2 | 0.859 | 18.0 | -89.2 | 167. |
| 1/10 | 3.67 | -11.4 | 21.8 | -0.617 | 11.7 | -42.9 | 80.7 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1004. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.18E-03 | -19.8 | 19.8 | -19.7 | 19.7 | -1.18E+03 | 1.18E+03 |
| 1/20 | 2.46E-02 | -59.3 | 59.3 | -59.1 | 59.1 | -1.18E+03 | 1.18E+03 |
| 1/15 | 3.27E-02 | -79.1 | 79.1 | -78.8 | 78.8 | -1.18E+03 | 1.18E+03 |
| 1/10 | 4.91E-02 | -119. | 119. | -118. | 118. | -1.18E+03 | 1.18E+03 |

Table Q–1005. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.673 | -10.3 | 12.5 | -10.3 | 12.4 | -660. | 704. |
| 1/20 | -1.25 | -26.9 | 20.3 | -26.4 | 18.8 | -502. | 401. |
| 1/15 | -5.15 | -35.7 | 20.2 | -34.9 | 18.9 | -446. | 360. |
| 1/10 | -14.5 | -102. | 22.4 | -64.2 | 17.9 | -497. | 324. |

Table Q–1006. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.673 | -10.3 | 12.5 | -10.3 | 12.4 | -660. | 704. |
| 1/20 | -1.25 | -26.9 | 20.3 | -26.4 | 18.8 | -502. | 401. |
| 1/15 | -5.15 | -35.7 | 20.2 | -34.9 | 18.9 | -446. | 360. |
| 1/10 | -14.5 | -102. | 22.4 | -64.2 | 17.9 | -497. | 324. |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1007. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1008. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

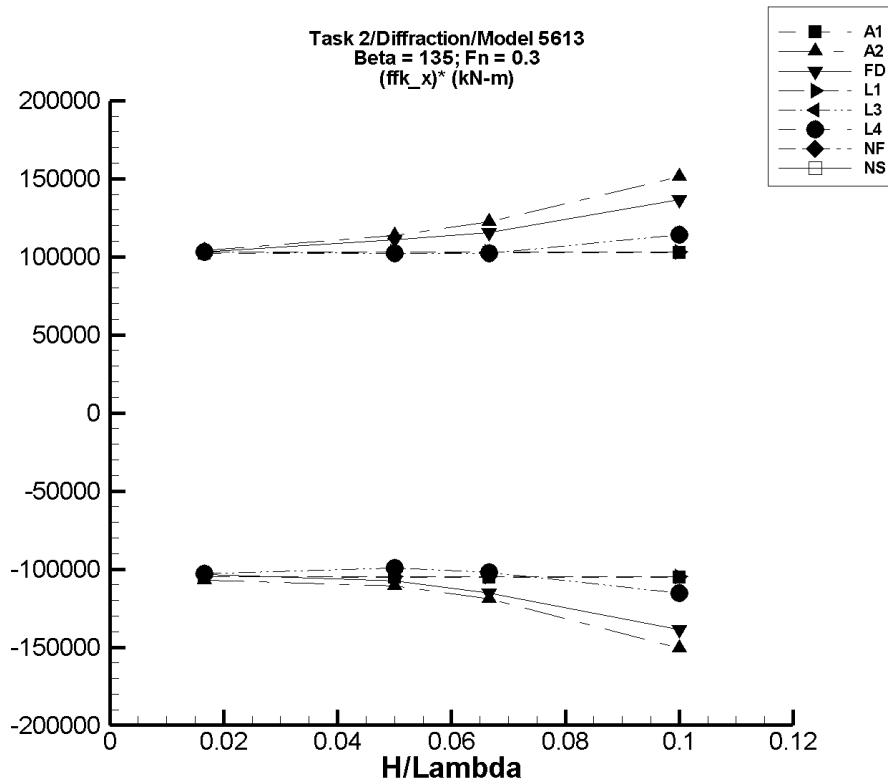


Figure Q-127. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1009. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.666 | -1.75E+03 | 1.74E+03 | -1.75E+03 | 1.70E+03 | -1.05E+05 | 1.02E+05 |
| 1/20 | 2.00 | -5.25E+03 | 5.25E+03 | -5.26E+03 | 5.12E+03 | -1.05E+05 | 1.02E+05 |
| 1/15 | 2.67 | -7.01E+03 | 7.00E+03 | -7.02E+03 | 6.84E+03 | -1.05E+05 | 1.03E+05 |
| 1/10 | 4.01 | -1.05E+04 | 1.05E+04 | -1.05E+04 | 1.03E+04 | -1.05E+05 | 1.03E+05 |

Table Q-1010. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.68 | -1.77E+03 | 1.78E+03 | -1.78E+03 | 1.74E+03 | -1.07E+05 | 1.04E+05 |
| 1/20 | 53.9 | -5.49E+03 | 5.90E+03 | -5.48E+03 | 5.74E+03 | -1.11E+05 | 1.14E+05 |
| 1/15 | 97.5 | -7.91E+03 | 8.45E+03 | -7.85E+03 | 8.25E+03 | -1.19E+05 | 1.22E+05 |
| 1/10 | 134. | -1.51E+04 | 1.58E+04 | -1.49E+04 | 1.53E+04 | -1.51E+05 | 1.51E+05 |

Table Q-1011. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.696 | -1.74E+03 | 1.76E+03 | -1.72E+03 | 1.72E+03 | -1.03E+05 | 1.03E+05 |
| 1/20 | -8.47 | -5.40E+03 | 5.69E+03 | -5.39E+03 | 5.53E+03 | -1.08E+05 | 1.11E+05 |
| 1/15 | -13.9 | -7.72E+03 | 7.93E+03 | -7.71E+03 | 7.70E+03 | -1.15E+05 | 1.16E+05 |
| 1/10 | -20.9 | -1.39E+04 | 1.41E+04 | -1.39E+04 | 1.37E+04 | -1.39E+05 | 1.37E+05 |

Table Q-1012. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.69E-02 | -1.73E+03 | 1.73E+03 | -1.74E+03 | 1.72E+03 | -1.05E+05 | 1.03E+05 |
| 1/20 | 0.262 | -5.20E+03 | 5.20E+03 | -5.23E+03 | 5.15E+03 | -1.05E+05 | 1.03E+05 |
| 1/15 | 0.349 | -6.93E+03 | 6.93E+03 | -6.98E+03 | 6.87E+03 | -1.05E+05 | 1.03E+05 |
| 1/10 | 0.524 | -1.04E+04 | 1.04E+04 | -1.05E+04 | 1.03E+04 | -1.05E+05 | 1.03E+05 |

Table Q-1013. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.17 | -1.72E+03 | 1.73E+03 | -1.72E+03 | 1.72E+03 | -1.03E+05 | 1.03E+05 |
| 1/20 | -4.68 | -4.92E+03 | 5.16E+03 | -4.96E+03 | 5.11E+03 | -9.91E+04 | 1.02E+05 |
| 1/15 | -16.6 | -6.81E+03 | 6.87E+03 | -6.82E+03 | 6.81E+03 | -1.02E+05 | 1.02E+05 |
| 1/10 | -49.1 | -1.16E+04 | 1.15E+04 | -1.16E+04 | 1.14E+04 | -1.15E+05 | 1.14E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1014. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|--------------|---------------------|--------------|-------------------------|--------------|
| (H/λ) | $\langle F_x^{fk} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{fk})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.17 | -1.72E+03 | 1.73E+03 | -1.72E+03 | 1.72E+03 | -1.03E+05 | 1.03E+05 |
| 1/20 | -4.68 | -4.92E+03 | 5.16E+03 | -4.96E+03 | 5.11E+03 | -9.91E+04 | 1.02E+05 |
| 1/15 | -16.6 | -6.81E+03 | 6.87E+03 | -6.82E+03 | 6.81E+03 | -1.02E+05 | 1.02E+05 |
| 1/10 | -49.1 | -1.16E+04 | 1.15E+04 | -1.16E+04 | 1.14E+04 | -1.15E+05 | 1.14E+05 |

Table Q-1015. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|--------------|---------------------|--------------|-------------------------|--------------|
| (H/λ) | $\langle F_x^{fk} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{fk})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1016. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|--------------|---------------------|--------------|-------------------------|--------------|
| (H/λ) | $\langle F_x^{fk} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{fk})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

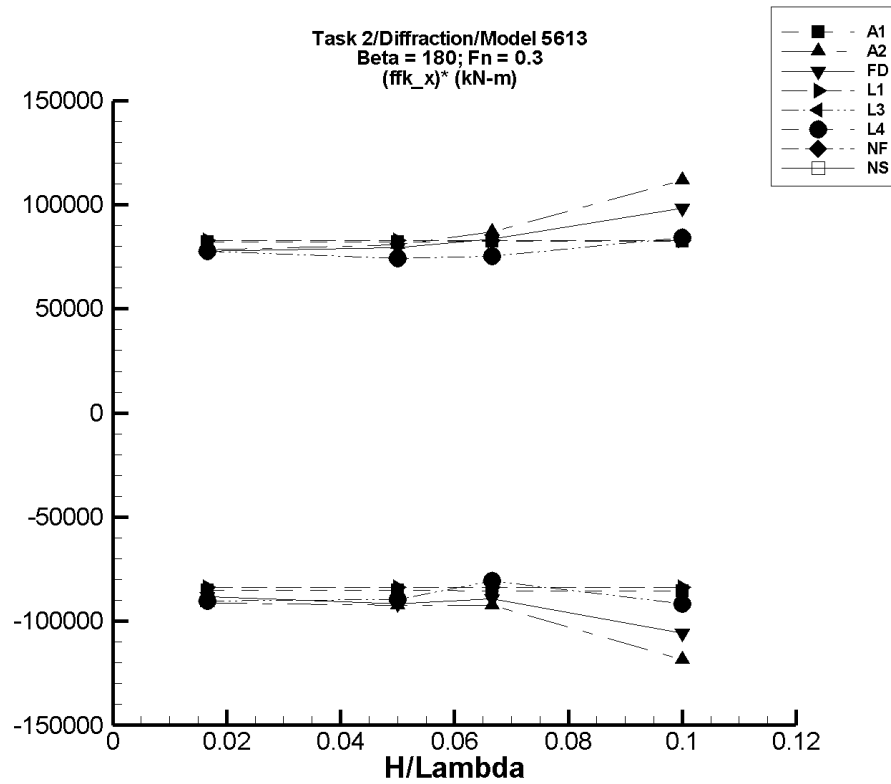


Figure Q-128. Minimum and maximum of filtered $(F_x^{\text{fk}} - \langle F_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1017. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.13 | -1.41E+03 | 1.41E+03 | -1.42E+03 | 1.37E+03 | -8.50E+04 | 8.20E+04 |
| 1/20 | 3.40 | -4.25E+03 | 4.25E+03 | -4.26E+03 | 4.11E+03 | -8.52E+04 | 8.22E+04 |
| 1/15 | 4.54 | -5.67E+03 | 5.67E+03 | -5.69E+03 | 5.49E+03 | -8.54E+04 | 8.23E+04 |
| 1/10 | 6.80 | -8.51E+03 | 8.50E+03 | -8.53E+03 | 8.24E+03 | -8.54E+04 | 8.23E+04 |

Table Q-1018. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 4.06 | -1.54E+03 | 1.34E+03 | -1.52E+03 | 1.31E+03 | -9.14E+04 | 7.83E+04 |
| 1/20 | 56.1 | -5.05E+03 | 4.31E+03 | -4.57E+03 | 4.09E+03 | -9.25E+04 | 8.07E+04 |
| 1/15 | 110. | -6.34E+03 | 6.23E+03 | -6.04E+03 | 5.90E+03 | -9.22E+04 | 8.68E+04 |
| 1/10 | 352. | -1.26E+04 | 1.22E+04 | -1.15E+04 | 1.15E+04 | -1.19E+05 | 1.12E+05 |

Table Q-1019. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.11 | -1.53E+03 | 1.33E+03 | -1.47E+03 | 1.30E+03 | -8.83E+04 | 7.76E+04 |
| 1/20 | 29.6 | -5.04E+03 | 4.17E+03 | -4.55E+03 | 4.00E+03 | -9.16E+04 | 7.94E+04 |
| 1/15 | 33.7 | -6.24E+03 | 5.90E+03 | -5.91E+03 | 5.59E+03 | -8.92E+04 | 8.34E+04 |
| 1/10 | 53.4 | -1.13E+04 | 1.06E+04 | -1.05E+04 | 9.90E+03 | -1.06E+05 | 9.84E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1020. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} Min. Max. (kN) (kN) | | Filtered F_x^{fk} Min. Max. (kN) (kN) | | Filtered $(F_x^{\text{fk}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 2.43 | -1.40E+03 | 1.40E+03 | -1.40E+03 | 1.38E+03 | -8.39E+04 | 8.28E+04 |
| 1/20 | 7.30 | -4.20E+03 | 4.19E+03 | -4.19E+03 | 4.15E+03 | -8.39E+04 | 8.28E+04 |
| 1/15 | 9.73 | -5.59E+03 | 5.59E+03 | -5.58E+03 | 5.53E+03 | -8.39E+04 | 8.28E+04 |
| 1/10 | 14.6 | -8.39E+03 | 8.39E+03 | -8.37E+03 | 8.30E+03 | -8.39E+04 | 8.28E+04 |

Table Q–1021. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} Min. Max. (kN) (kN) | | Filtered F_x^{fk} Min. Max. (kN) (kN) | | Filtered $(F_x^{\text{fk}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 4.33 | -1.52E+03 | 1.31E+03 | -1.50E+03 | 1.30E+03 | -9.02E+04 | 7.76E+04 |
| 1/20 | 25.6 | -4.69E+03 | 3.79E+03 | -4.45E+03 | 3.73E+03 | -8.95E+04 | 7.41E+04 |
| 1/15 | 12.7 | -5.48E+03 | 5.14E+03 | -5.37E+03 | 5.04E+03 | -8.07E+04 | 7.54E+04 |
| 1/10 | 30.3 | -9.39E+03 | 8.68E+03 | -9.12E+03 | 8.46E+03 | -9.15E+04 | 8.43E+04 |

Table Q–1022. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|---------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------|----------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_x^{fk} Min. Max. (kN) (kN) | | Filtered F_x^{fk} Min. Max. (kN) (kN) | | Filtered $(F_x^{\text{fk}})^*$ Min. Max. (kN) (kN) | |
| 1/60 | 4.33 | -1.52E+03 | 1.31E+03 | -1.50E+03 | 1.30E+03 | -9.02E+04 | 7.76E+04 |
| 1/20 | 25.6 | -4.69E+03 | 3.79E+03 | -4.45E+03 | 3.73E+03 | -8.95E+04 | 7.41E+04 |
| 1/15 | 12.7 | -5.48E+03 | 5.14E+03 | -5.37E+03 | 5.04E+03 | -8.07E+04 | 7.54E+04 |
| 1/10 | 30.3 | -9.39E+03 | 8.68E+03 | -9.12E+03 | 8.46E+03 | -9.15E+04 | 8.43E+04 |

Table Q–1023. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1024. Minimum and Maximum of Variables F_x^{fk} and $(F_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{fk}} \rangle$ | Unfiltered F_x^{fk} | | Filtered F_x^{fk} | | Filtered $(F_x^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

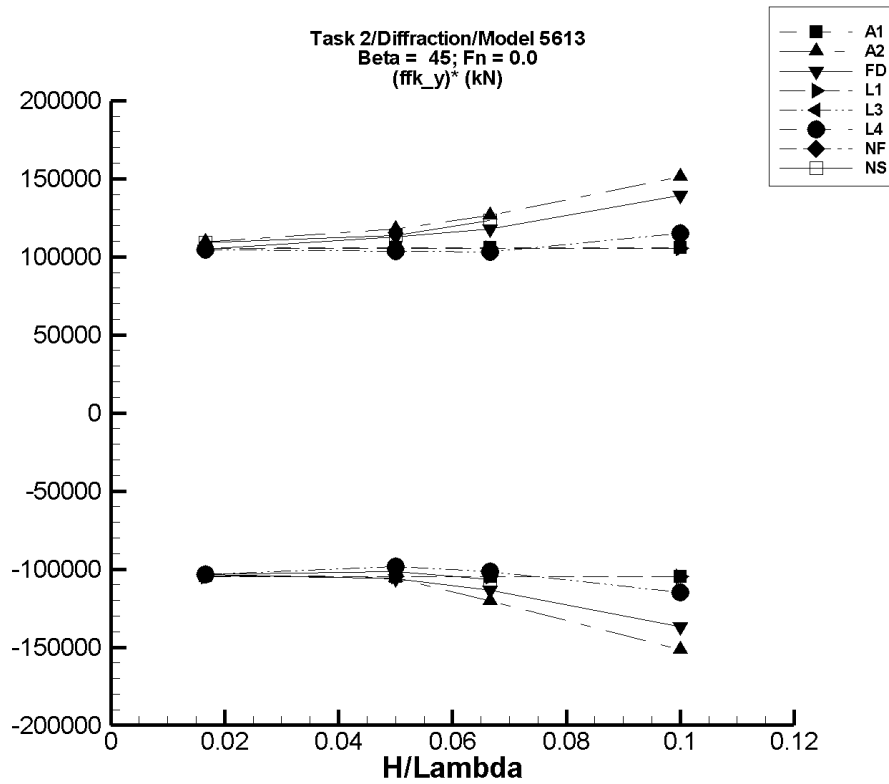


Figure Q-129. Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1025. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.38 | -1.76E+03 | 1.76E+03 | -1.74E+03 | 1.76E+03 | -1.04E+05 | 1.05E+05 |
| 1/20 | -4.15 | -5.29E+03 | 5.29E+03 | -5.24E+03 | 5.28E+03 | -1.05E+05 | 1.06E+05 |
| 1/15 | -5.54 | -7.07E+03 | 7.07E+03 | -7.00E+03 | 7.05E+03 | -1.05E+05 | 1.06E+05 |
| 1/10 | -8.30 | -1.06E+04 | 1.06E+04 | -1.05E+04 | 1.06E+04 | -1.05E+05 | 1.06E+05 |

Table Q-1026. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.37 | -1.76E+03 | 1.84E+03 | -1.74E+03 | 1.82E+03 | -1.04E+05 | 1.09E+05 |
| 1/20 | -8.00 | -5.34E+03 | 7.62E+03 | -5.30E+03 | 5.89E+03 | -1.06E+05 | 1.18E+05 |
| 1/15 | -46.3 | -8.99E+03 | 8.50E+03 | -8.08E+03 | 8.39E+03 | -1.20E+05 | 1.27E+05 |
| 1/10 | 395. | -1.50E+04 | 2.93E+04 | -1.48E+04 | 1.55E+04 | -1.52E+05 | 1.51E+05 |

Table Q–1027. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.34 | -1.74E+03 | 1.76E+03 | -1.72E+03 | 1.74E+03 | -1.03E+05 | 1.05E+05 |
| 1/20 | -20.3 | -5.39E+03 | 5.69E+03 | -5.33E+03 | 5.62E+03 | -1.06E+05 | 1.13E+05 |
| 1/15 | -34.4 | -7.74E+03 | 7.91E+03 | -7.61E+03 | 7.81E+03 | -1.14E+05 | 1.18E+05 |
| 1/10 | -31.1 | -1.40E+04 | 1.42E+04 | -1.37E+04 | 1.39E+04 | -1.37E+05 | 1.39E+05 |

Table Q–1028. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.670 | -1.75E+03 | 1.75E+03 | -1.75E+03 | 1.75E+03 | -1.05E+05 | 1.05E+05 |
| 1/20 | -2.01 | -5.25E+03 | 5.25E+03 | -5.24E+03 | 5.26E+03 | -1.05E+05 | 1.05E+05 |
| 1/15 | -2.68 | -7.01E+03 | 7.01E+03 | -6.98E+03 | 7.01E+03 | -1.05E+05 | 1.05E+05 |
| 1/10 | -4.02 | -1.05E+04 | 1.05E+04 | -1.05E+04 | 1.05E+04 | -1.05E+05 | 1.05E+05 |

Table Q-1029. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.33 | -1.73E+03 | 1.74E+03 | -1.72E+03 | 1.74E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | -8.53 | -4.94E+03 | 5.18E+03 | -4.92E+03 | 5.16E+03 | -9.82E+04 | 1.03E+05 |
| 1/15 | 1.64 | -6.80E+03 | 6.91E+03 | -6.77E+03 | 6.88E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | 14.2 | -1.16E+04 | 1.17E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

Table Q-1030. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.33 | -1.73E+03 | 1.74E+03 | -1.72E+03 | 1.74E+03 | -1.03E+05 | 1.04E+05 |
| 1/20 | -8.53 | -4.94E+03 | 5.18E+03 | -4.92E+03 | 5.16E+03 | -9.82E+04 | 1.03E+05 |
| 1/15 | 1.64 | -6.80E+03 | 6.91E+03 | -6.77E+03 | 6.88E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | 14.2 | -1.16E+04 | 1.17E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

Table Q–1031. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1032. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.72 | -1.74E+03 | 1.82E+03 | -1.73E+03 | 1.81E+03 | -1.03E+05 | 1.09E+05 |
| 1/20 | -5.77 | -5.15E+03 | 5.74E+03 | -5.09E+03 | 5.67E+03 | -1.02E+05 | 1.13E+05 |
| 1/15 | 21.2 | -7.17E+03 | 8.23E+03 | -7.08E+03 | 8.23E+03 | -1.07E+05 | 1.23E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

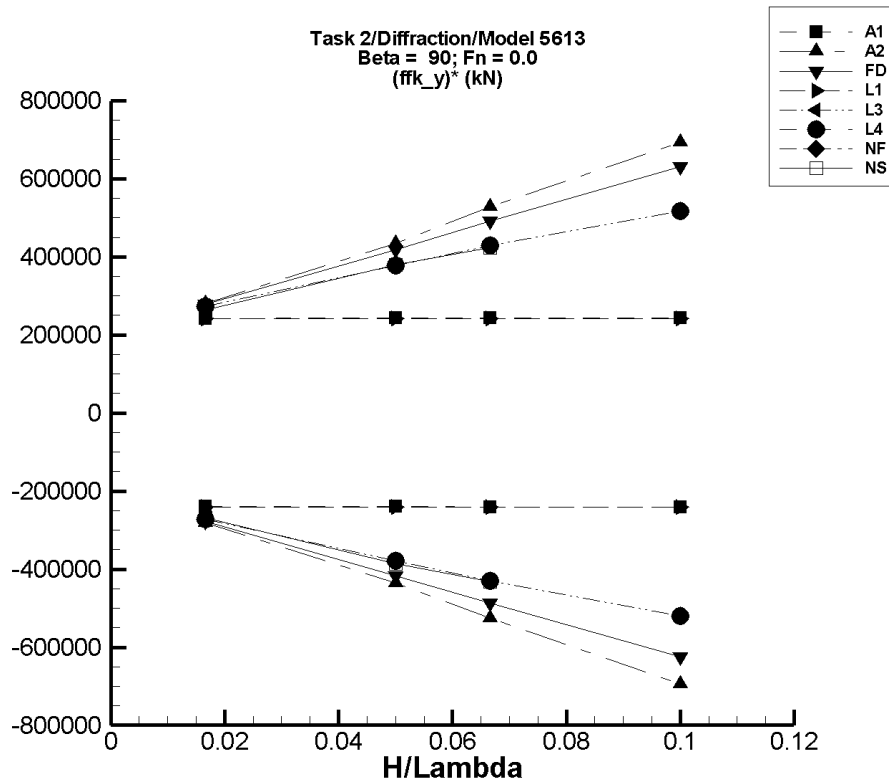


Figure Q-130. Minimum and maximum of filtered $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1033. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.24 | -4.04E+03 | 4.04E+03 | -4.00E+03 | 4.04E+03 | -2.40E+05 | 2.42E+05 |
| 1/20 | -9.75 | -1.21E+04 | 1.21E+04 | -1.20E+04 | 1.21E+04 | -2.40E+05 | 2.43E+05 |
| 1/15 | -13.0 | -1.62E+04 | 1.62E+04 | -1.60E+04 | 1.62E+04 | -2.40E+05 | 2.43E+05 |
| 1/10 | -19.5 | -2.43E+04 | 2.43E+04 | -2.41E+04 | 2.43E+04 | -2.40E+05 | 2.43E+05 |

Table Q–1034. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.89 | -4.78E+03 | 4.77E+03 | -4.68E+03 | 4.68E+03 | -2.81E+05 | 2.81E+05 |
| 1/20 | 44.4 | -2.24E+04 | 2.24E+04 | -2.18E+04 | 2.18E+04 | -4.36E+05 | 4.35E+05 |
| 1/15 | 11.5 | -3.63E+04 | 3.64E+04 | -3.50E+04 | 3.52E+04 | -5.26E+05 | 5.27E+05 |
| 1/10 | 86.4 | -7.21E+04 | 7.20E+04 | -6.94E+04 | 6.94E+04 | -6.94E+05 | 6.94E+05 |

Table Q–1035. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.61 | -4.72E+03 | 4.72E+03 | -4.63E+03 | 4.64E+03 | -2.78E+05 | 2.78E+05 |
| 1/20 | -33.8 | -2.15E+04 | 2.15E+04 | -2.09E+04 | 2.09E+04 | -4.17E+05 | 4.19E+05 |
| 1/15 | -74.3 | -3.36E+04 | 3.36E+04 | -3.26E+04 | 3.27E+04 | -4.88E+05 | 4.91E+05 |
| 1/10 | -284. | -6.49E+04 | 6.49E+04 | -6.27E+04 | 6.28E+04 | -6.24E+05 | 6.31E+05 |

Table Q–1036. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.02 | -4.02E+03 | 4.02E+03 | -4.01E+03 | 4.04E+03 | -2.41E+05 | 2.42E+05 |
| 1/20 | -3.07 | -1.21E+04 | 1.21E+04 | -1.20E+04 | 1.21E+04 | -2.41E+05 | 2.42E+05 |
| 1/15 | -4.09 | -1.61E+04 | 1.61E+04 | -1.60E+04 | 1.62E+04 | -2.41E+05 | 2.42E+05 |
| 1/10 | -6.13 | -2.41E+04 | 2.41E+04 | -2.41E+04 | 2.42E+04 | -2.41E+05 | 2.42E+05 |

Table Q-1037. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.72E-02 | -4.56E+03 | 4.56E+03 | -4.53E+03 | 4.54E+03 | -2.72E+05 | 2.72E+05 |
| 1/20 | 12.4 | -1.91E+04 | 1.91E+04 | -1.89E+04 | 1.89E+04 | -3.79E+05 | 3.78E+05 |
| 1/15 | 30.4 | -2.89E+04 | 2.89E+04 | -2.86E+04 | 2.86E+04 | -4.29E+05 | 4.28E+05 |
| 1/10 | 152. | -5.24E+04 | 5.24E+04 | -5.18E+04 | 5.18E+04 | -5.19E+05 | 5.16E+05 |

Table Q-1038. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.72E-02 | -4.56E+03 | 4.56E+03 | -4.53E+03 | 4.54E+03 | -2.72E+05 | 2.72E+05 |
| 1/20 | 12.4 | -1.91E+04 | 1.91E+04 | -1.89E+04 | 1.89E+04 | -3.79E+05 | 3.78E+05 |
| 1/15 | 30.4 | -2.89E+04 | 2.89E+04 | -2.86E+04 | 2.86E+04 | -4.29E+05 | 4.28E+05 |
| 1/10 | 152. | -5.24E+04 | 5.24E+04 | -5.18E+04 | 5.18E+04 | -5.19E+05 | 5.16E+05 |

Table Q–1039. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1040. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.21 | -4.56E+03 | 4.47E+03 | -4.48E+03 | 4.40E+03 | -2.69E+05 | 2.64E+05 |
| 1/20 | 18.1 | -1.98E+04 | 1.95E+04 | -1.93E+04 | 1.90E+04 | -3.86E+05 | 3.79E+05 |
| 1/15 | 80.7 | -2.92E+04 | 2.88E+04 | -2.87E+04 | 2.83E+04 | -4.32E+05 | 4.23E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

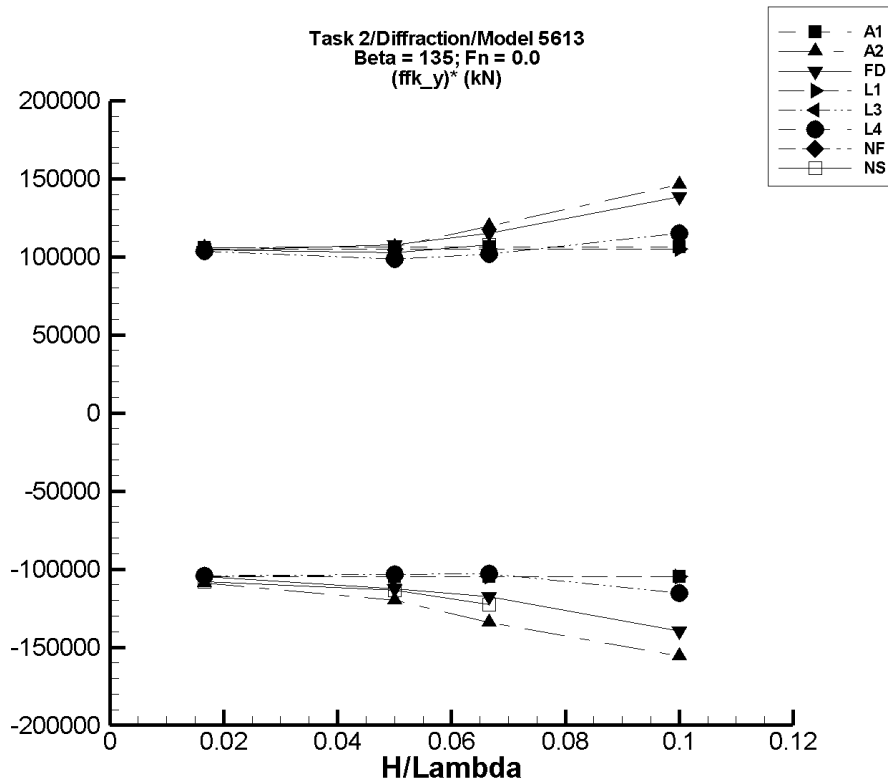


Figure Q-131. Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1041. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.45 | -1.76E+03 | 1.76E+03 | -1.74E+03 | 1.76E+03 | -1.04E+05 | 1.06E+05 |
| 1/20 | -4.35 | -5.29E+03 | 5.29E+03 | -5.24E+03 | 5.30E+03 | -1.05E+05 | 1.06E+05 |
| 1/15 | -5.81 | -7.07E+03 | 7.07E+03 | -7.00E+03 | 7.08E+03 | -1.05E+05 | 1.06E+05 |
| 1/10 | -8.71 | -1.06E+04 | 1.06E+04 | -1.05E+04 | 1.06E+04 | -1.05E+05 | 1.06E+05 |

Table Q-1042. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.17 | -1.84E+03 | 1.76E+03 | -1.82E+03 | 1.76E+03 | -1.09E+05 | 1.06E+05 |
| 1/20 | -9.53 | -6.80E+03 | 5.35E+03 | -6.01E+03 | 5.31E+03 | -1.20E+05 | 1.06E+05 |
| 1/15 | -83.9 | -1.39E+04 | 8.04E+03 | -9.02E+03 | 7.90E+03 | -1.34E+05 | 1.20E+05 |
| 1/10 | -14.3 | -1.60E+04 | 1.49E+04 | -1.56E+04 | 1.46E+04 | -1.56E+05 | 1.46E+05 |

Table Q–1043. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.724 | -1.76E+03 | 1.74E+03 | -1.74E+03 | 1.73E+03 | -1.05E+05 | 1.04E+05 |
| 1/20 | 9.60 | -5.69E+03 | 5.40E+03 | -5.62E+03 | 5.41E+03 | -1.13E+05 | 1.08E+05 |
| 1/15 | 30.4 | -7.91E+03 | 7.74E+03 | -7.81E+03 | 7.71E+03 | -1.18E+05 | 1.15E+05 |
| 1/10 | 54.7 | -1.42E+04 | 1.40E+04 | -1.39E+04 | 1.39E+04 | -1.40E+05 | 1.38E+05 |

Table Q–1044. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.85 | -1.75E+03 | 1.75E+03 | -1.74E+03 | 1.75E+03 | -1.05E+05 | 1.05E+05 |
| 1/20 | -5.56 | -5.25E+03 | 5.25E+03 | -5.23E+03 | 5.25E+03 | -1.05E+05 | 1.05E+05 |
| 1/15 | -7.41 | -7.01E+03 | 7.01E+03 | -6.98E+03 | 6.99E+03 | -1.05E+05 | 1.05E+05 |
| 1/10 | -11.1 | -1.05E+04 | 1.05E+04 | -1.05E+04 | 1.05E+04 | -1.05E+05 | 1.05E+05 |

Table Q–1045. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.41 | -1.74E+03 | 1.73E+03 | -1.74E+03 | 1.72E+03 | -1.04E+05 | 1.04E+05 |
| 1/20 | -1.53 | -5.18E+03 | 4.94E+03 | -5.16E+03 | 4.93E+03 | -1.03E+05 | 9.86E+04 |
| 1/15 | -6.10 | -6.91E+03 | 6.80E+03 | -6.88E+03 | 6.78E+03 | -1.03E+05 | 1.02E+05 |
| 1/10 | -13.9 | -1.17E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

Table Q–1046. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.41 | -1.74E+03 | 1.73E+03 | -1.74E+03 | 1.72E+03 | -1.04E+05 | 1.04E+05 |
| 1/20 | -1.53 | -5.18E+03 | 4.94E+03 | -5.16E+03 | 4.93E+03 | -1.03E+05 | 9.86E+04 |
| 1/15 | -6.10 | -6.91E+03 | 6.80E+03 | -6.88E+03 | 6.78E+03 | -1.03E+05 | 1.02E+05 |
| 1/10 | -13.9 | -1.17E+04 | 1.16E+04 | -1.15E+04 | 1.15E+04 | -1.15E+05 | 1.15E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1047. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1048. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.63 | -1.82E+03 | 1.74E+03 | -1.80E+03 | 1.74E+03 | -1.08E+05 | 1.05E+05 |
| 1/20 | 5.52 | -5.74E+03 | 5.14E+03 | -5.67E+03 | 5.14E+03 | -1.13E+05 | 1.03E+05 |
| 1/15 | 26.9 | -8.23E+03 | 7.17E+03 | -8.15E+03 | 7.19E+03 | -1.23E+05 | 1.07E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

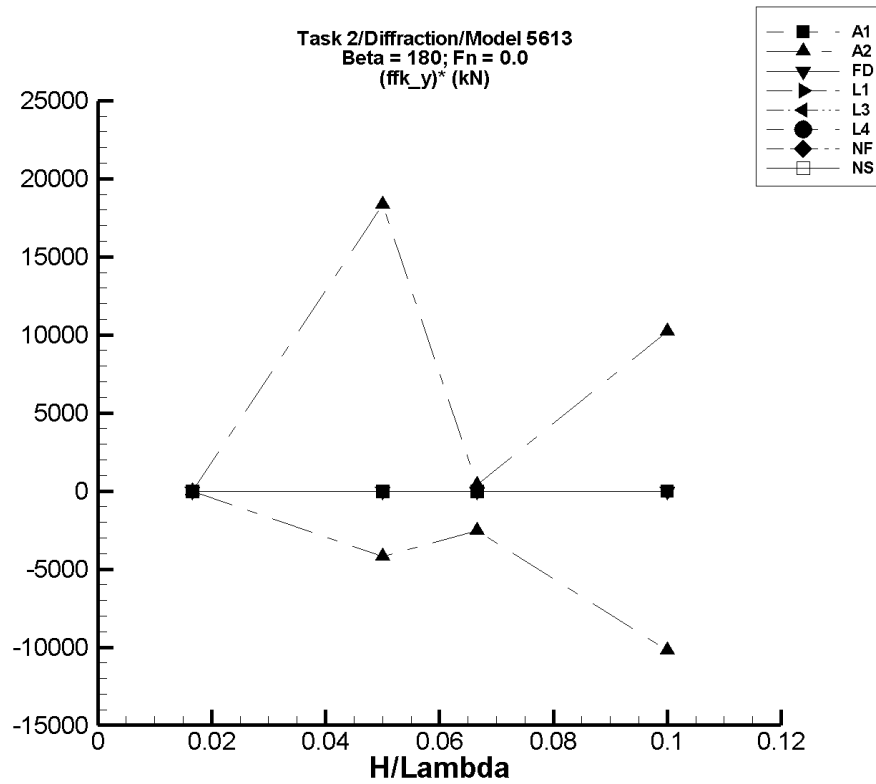


Figure Q-132. Minimum and maximum of filtered $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1049. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -7.28E-07 | -2.95E-03 | 2.95E-03 | -2.92E-03 | 2.92E-03 | -0.175 | 0.175 |
| 1/20 | -2.19E-06 | -8.88E-03 | 8.88E-03 | -8.79E-03 | 8.79E-03 | -0.176 | 0.176 |
| 1/15 | -2.93E-06 | -1.19E-02 | 1.19E-02 | -1.17E-02 | 1.17E-02 | -0.176 | 0.176 |
| 1/10 | -4.39E-06 | -1.78E-02 | 1.78E-02 | -1.76E-02 | 1.76E-02 | -0.176 | 0.176 |

Table Q-1050. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.46E-05 | -2.23E-05 | 8.26E-05 | -1.02E-05 | 5.55E-05 | -1.49E-03 | 2.45E-03 |
| 1/20 | 31.9 | -1.21E+03 | 7.09E+03 | -179. | 949. | -4.21E+03 | 1.83E+04 |
| 1/15 | -11.9 | -1.37E+03 | 5.63E-04 | -183. | 15.7 | -2.56E+03 | 413. |
| 1/10 | -4.03 | -7.49E+03 | 7.47E+03 | -1.02E+03 | 1.02E+03 | -1.02E+04 | 1.02E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1051. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.26E-05 | -1.10E-03 | 1.22E-03 | -2.38E-04 | 1.96E-04 | -1.23E-02 | 1.37E-02 |
| 1/20 | -3.15E-03 | -1.04E-02 | 1.45E-02 | -9.65E-03 | 1.66E-03 | -0.130 | 9.61E-02 |
| 1/15 | -3.32E-03 | -1.63E-02 | 4.83E-03 | -1.13E-02 | 1.54E-03 | -0.119 | 7.30E-02 |
| 1/10 | -1.47E-03 | -1.64E-02 | 2.26E-02 | -6.49E-03 | 3.61E-03 | -5.01E-02 | 5.08E-02 |

Table Q–1052. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1053. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1054. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1055. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1056. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.37E-05 | -1.19E-03 | 1.11E-03 | -2.80E-04 | 5.61E-04 | -2.00E-02 | 3.04E-02 |
| 1/20 | -3.62E-05 | -4.77E-03 | 3.99E-03 | -1.96E-03 | 1.11E-03 | -3.85E-02 | 2.29E-02 |
| 1/15 | 1.22E-04 | -5.71E-03 | 5.84E-03 | -1.26E-03 | 2.12E-03 | -2.07E-02 | 3.00E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

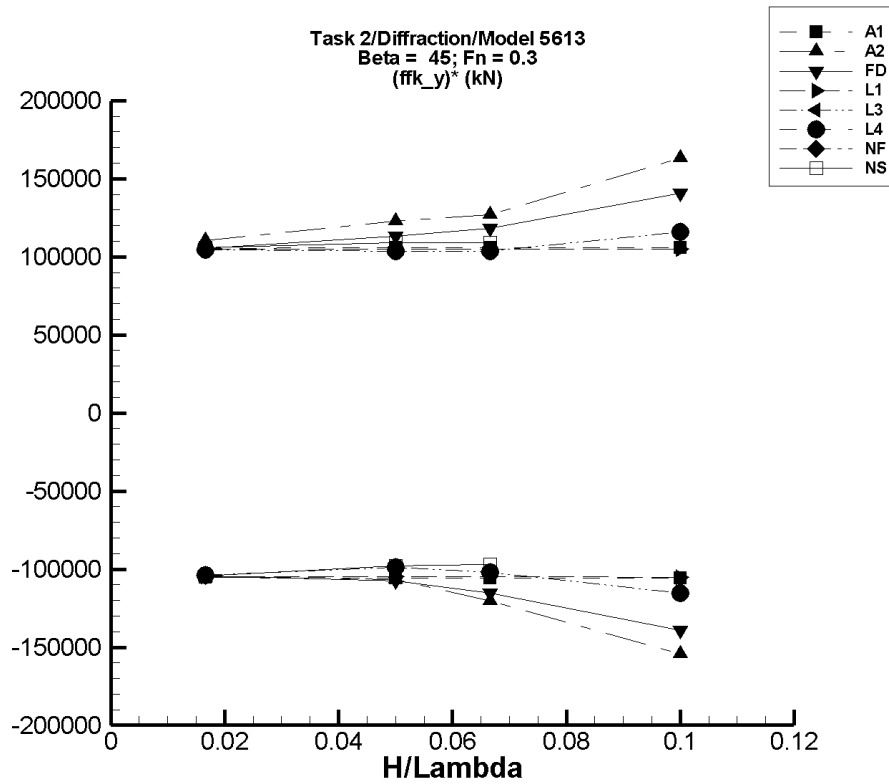


Figure Q-133. Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1057. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.420 | -1.76E+03 | 1.76E+03 | -1.76E+03 | 1.76E+03 | -1.05E+05 | 1.06E+05 |
| 1/20 | 1.26 | -5.29E+03 | 5.29E+03 | -5.28E+03 | 5.29E+03 | -1.06E+05 | 1.06E+05 |
| 1/15 | 1.69 | -7.07E+03 | 7.07E+03 | -7.05E+03 | 7.07E+03 | -1.06E+05 | 1.06E+05 |
| 1/10 | 2.53 | -1.06E+04 | 1.06E+04 | -1.06E+04 | 1.06E+04 | -1.06E+05 | 1.06E+05 |

Table Q-1058. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.114 | -1.76E+03 | 1.84E+03 | -1.76E+03 | 1.84E+03 | -1.05E+05 | 1.10E+05 |
| 1/20 | -0.473 | -5.35E+03 | 7.62E+03 | -5.34E+03 | 6.13E+03 | -1.07E+05 | 1.23E+05 |
| 1/15 | -4.62 | -8.29E+03 | 8.52E+03 | -8.03E+03 | 8.47E+03 | -1.20E+05 | 1.27E+05 |
| 1/10 | 309. | -1.49E+04 | 3.20E+04 | -1.51E+04 | 1.67E+04 | -1.54E+05 | 1.63E+05 |

Table Q–1059. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.169 | -1.74E+03 | 1.76E+03 | -1.74E+03 | 1.76E+03 | -1.04E+05 | 1.05E+05 |
| 1/20 | -1.73 | -5.40E+03 | 5.69E+03 | -5.38E+03 | 5.67E+03 | -1.08E+05 | 1.13E+05 |
| 1/15 | 1.12 | -7.74E+03 | 7.92E+03 | -7.70E+03 | 7.89E+03 | -1.15E+05 | 1.18E+05 |
| 1/10 | 21.3 | -1.40E+04 | 1.42E+04 | -1.39E+04 | 1.41E+04 | -1.39E+05 | 1.41E+05 |

Table Q–1060. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.228 | -1.75E+03 | 1.75E+03 | -1.75E+03 | 1.75E+03 | -1.05E+05 | 1.05E+05 |
| 1/20 | 0.684 | -5.25E+03 | 5.25E+03 | -5.25E+03 | 5.25E+03 | -1.05E+05 | 1.05E+05 |
| 1/15 | 0.911 | -7.01E+03 | 7.01E+03 | -7.00E+03 | 7.00E+03 | -1.05E+05 | 1.05E+05 |
| 1/10 | 1.37 | -1.05E+04 | 1.05E+04 | -1.05E+04 | 1.05E+04 | -1.05E+05 | 1.05E+05 |

Table Q–1061. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.449 | -1.73E+03 | 1.74E+03 | -1.73E+03 | 1.74E+03 | -1.04E+05 | 1.05E+05 |
| 1/20 | 1.10 | -4.94E+03 | 5.18E+03 | -4.93E+03 | 5.18E+03 | -9.87E+04 | 1.04E+05 |
| 1/15 | -1.05 | -6.80E+03 | 6.91E+03 | -6.80E+03 | 6.90E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | -2.79 | -1.16E+04 | 1.17E+04 | -1.15E+04 | 1.16E+04 | -1.15E+05 | 1.16E+05 |

Table Q–1062. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.449 | -1.73E+03 | 1.74E+03 | -1.73E+03 | 1.74E+03 | -1.04E+05 | 1.05E+05 |
| 1/20 | 1.10 | -4.94E+03 | 5.18E+03 | -4.93E+03 | 5.18E+03 | -9.87E+04 | 1.04E+05 |
| 1/15 | -1.05 | -6.80E+03 | 6.91E+03 | -6.80E+03 | 6.90E+03 | -1.02E+05 | 1.03E+05 |
| 1/10 | -2.79 | -1.16E+04 | 1.17E+04 | -1.15E+04 | 1.16E+04 | -1.15E+05 | 1.16E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1063. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1064. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.73 | -1.75E+03 | 1.78E+03 | -1.73E+03 | 1.77E+03 | -1.04E+05 | 1.06E+05 |
| 1/20 | 54.8 | -4.90E+03 | 5.56E+03 | -4.85E+03 | 5.51E+03 | -9.80E+04 | 1.09E+05 |
| 1/15 | 86.0 | -6.43E+03 | 7.41E+03 | -6.39E+03 | 7.36E+03 | -9.72E+04 | 1.09E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

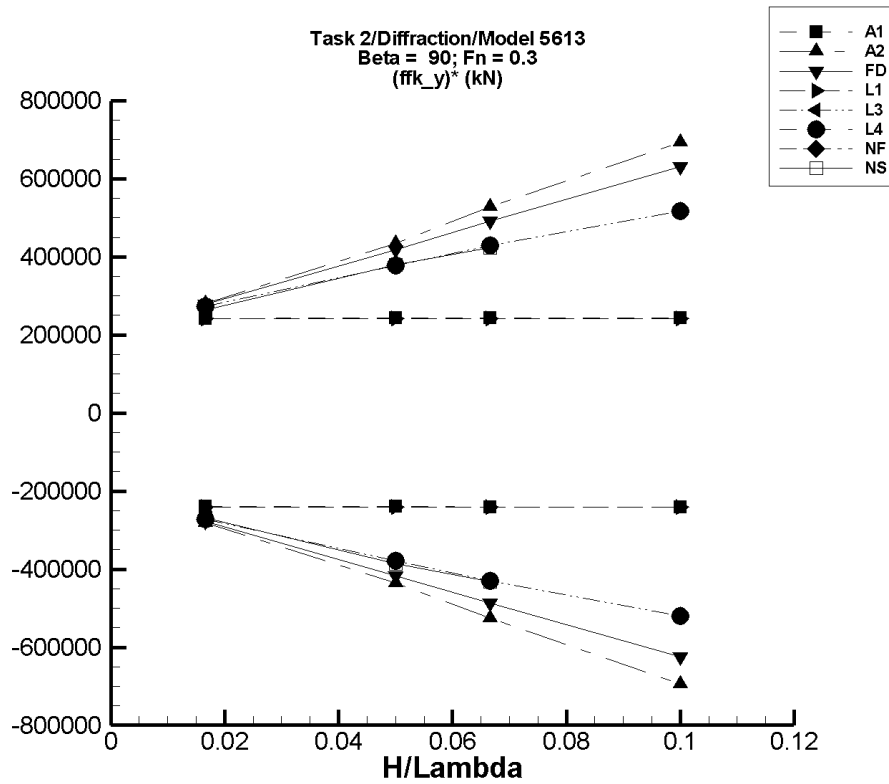


Figure Q-134. Minimum and maximum of filtered $(F_y^{\text{fk}} - \langle F_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1065. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.24 | -4.04E+03 | 4.04E+03 | -4.00E+03 | 4.04E+03 | -2.40E+05 | 2.42E+05 |
| 1/20 | -9.75 | -1.21E+04 | 1.21E+04 | -1.20E+04 | 1.21E+04 | -2.40E+05 | 2.43E+05 |
| 1/15 | -13.0 | -1.62E+04 | 1.62E+04 | -1.60E+04 | 1.62E+04 | -2.40E+05 | 2.43E+05 |
| 1/10 | -19.5 | -2.43E+04 | 2.43E+04 | -2.41E+04 | 2.43E+04 | -2.40E+05 | 2.43E+05 |

Table Q-1066. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.89 | -4.78E+03 | 4.77E+03 | -4.68E+03 | 4.68E+03 | -2.81E+05 | 2.81E+05 |
| 1/20 | 44.4 | -2.24E+04 | 2.24E+04 | -2.18E+04 | 2.18E+04 | -4.36E+05 | 4.35E+05 |
| 1/15 | 0.190 | -3.63E+04 | 3.64E+04 | -3.50E+04 | 3.52E+04 | -5.26E+05 | 5.27E+05 |
| 1/10 | 86.4 | -7.21E+04 | 7.20E+04 | -6.94E+04 | 6.94E+04 | -6.94E+05 | 6.94E+05 |

Table Q–1067. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.61 | -4.72E+03 | 4.72E+03 | -4.63E+03 | 4.64E+03 | -2.78E+05 | 2.78E+05 |
| 1/20 | -33.8 | -2.15E+04 | 2.15E+04 | -2.09E+04 | 2.09E+04 | -4.17E+05 | 4.19E+05 |
| 1/15 | -74.3 | -3.36E+04 | 3.36E+04 | -3.26E+04 | 3.27E+04 | -4.88E+05 | 4.91E+05 |
| 1/10 | -284. | -6.49E+04 | 6.49E+04 | -6.27E+04 | 6.28E+04 | -6.24E+05 | 6.31E+05 |

Table Q–1068. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.02 | -4.02E+03 | 4.02E+03 | -4.01E+03 | 4.04E+03 | -2.41E+05 | 2.42E+05 |
| 1/20 | -3.07 | -1.21E+04 | 1.21E+04 | -1.20E+04 | 1.21E+04 | -2.41E+05 | 2.42E+05 |
| 1/15 | -4.09 | -1.61E+04 | 1.61E+04 | -1.60E+04 | 1.62E+04 | -2.41E+05 | 2.42E+05 |
| 1/10 | -6.13 | -2.41E+04 | 2.41E+04 | -2.41E+04 | 2.42E+04 | -2.41E+05 | 2.42E+05 |

Table Q-1069. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.82E-02 | -4.56E+03 | 4.56E+03 | -4.53E+03 | 4.54E+03 | -2.72E+05 | 2.72E+05 |
| 1/20 | 12.4 | -1.91E+04 | 1.91E+04 | -1.89E+04 | 1.89E+04 | -3.79E+05 | 3.78E+05 |
| 1/15 | 30.4 | -2.89E+04 | 2.89E+04 | -2.86E+04 | 2.86E+04 | -4.29E+05 | 4.28E+05 |
| 1/10 | 152. | -5.24E+04 | 5.24E+04 | -5.18E+04 | 5.18E+04 | -5.19E+05 | 5.16E+05 |

Table Q-1070. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.82E-02 | -4.56E+03 | 4.56E+03 | -4.53E+03 | 4.54E+03 | -2.72E+05 | 2.72E+05 |
| 1/20 | 12.4 | -1.91E+04 | 1.91E+04 | -1.89E+04 | 1.89E+04 | -3.79E+05 | 3.78E+05 |
| 1/15 | 30.4 | -2.89E+04 | 2.89E+04 | -2.86E+04 | 2.86E+04 | -4.29E+05 | 4.28E+05 |
| 1/10 | 152. | -5.24E+04 | 5.24E+04 | -5.18E+04 | 5.18E+04 | -5.19E+05 | 5.16E+05 |

Table Q-1071. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1072. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.21 | -4.56E+03 | 4.47E+03 | -4.48E+03 | 4.40E+03 | -2.69E+05 | 2.64E+05 |
| 1/20 | 18.1 | -1.98E+04 | 1.95E+04 | -1.93E+04 | 1.90E+04 | -3.86E+05 | 3.79E+05 |
| 1/15 | 80.7 | -2.92E+04 | 2.88E+04 | -2.87E+04 | 2.83E+04 | -4.32E+05 | 4.23E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

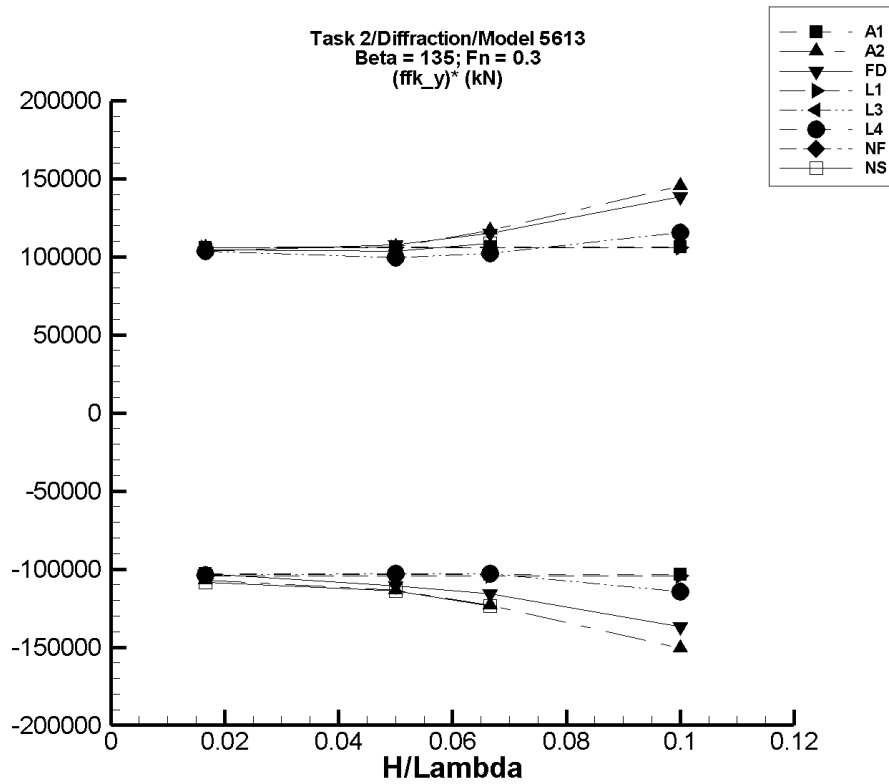


Figure Q-135. Minimum and maximum of filtered $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1073. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.683 | -1.76E+03 | 1.76E+03 | -1.72E+03 | 1.77E+03 | -1.03E+05 | 1.06E+05 |
| 1/20 | -2.06 | -5.29E+03 | 5.29E+03 | -5.17E+03 | 5.31E+03 | -1.03E+05 | 1.06E+05 |
| 1/15 | -2.74 | -7.06E+03 | 7.07E+03 | -6.90E+03 | 7.09E+03 | -1.03E+05 | 1.06E+05 |
| 1/10 | -4.12 | -1.06E+04 | 1.06E+04 | -1.03E+04 | 1.06E+04 | -1.03E+05 | 1.06E+05 |

Table Q-1074. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.898 | -1.84E+03 | 1.76E+03 | -1.79E+03 | 1.76E+03 | -1.07E+05 | 1.06E+05 |
| 1/20 | -2.60 | -6.20E+03 | 5.34E+03 | -5.68E+03 | 5.30E+03 | -1.14E+05 | 1.06E+05 |
| 1/15 | -3.00 | -8.48E+03 | 8.04E+03 | -8.23E+03 | 7.80E+03 | -1.23E+05 | 1.17E+05 |
| 1/10 | 20.2 | -1.58E+04 | 1.49E+04 | -1.50E+04 | 1.45E+04 | -1.50E+05 | 1.45E+05 |

Table Q-1075. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.597 | -1.76E+03 | 1.74E+03 | -1.72E+03 | 1.72E+03 | -1.03E+05 | 1.03E+05 |
| 1/20 | 13.1 | -5.69E+03 | 5.40E+03 | -5.53E+03 | 5.39E+03 | -1.11E+05 | 1.08E+05 |
| 1/15 | 23.3 | -7.91E+03 | 7.74E+03 | -7.68E+03 | 7.70E+03 | -1.16E+05 | 1.15E+05 |
| 1/10 | 32.0 | -1.42E+04 | 1.40E+04 | -1.37E+04 | 1.39E+04 | -1.37E+05 | 1.38E+05 |

Table Q-1076. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -8.81E-02 | -1.75E+03 | 1.75E+03 | -1.74E+03 | 1.76E+03 | -1.04E+05 | 1.06E+05 |
| 1/20 | -0.266 | -5.25E+03 | 5.25E+03 | -5.21E+03 | 5.29E+03 | -1.04E+05 | 1.06E+05 |
| 1/15 | -0.353 | -7.01E+03 | 7.01E+03 | -6.95E+03 | 7.06E+03 | -1.04E+05 | 1.06E+05 |
| 1/10 | -0.532 | -1.05E+04 | 1.05E+04 | -1.04E+04 | 1.06E+04 | -1.04E+05 | 1.06E+05 |

Table Q-1077. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.506 | -1.74E+03 | 1.73E+03 | -1.73E+03 | 1.73E+03 | -1.04E+05 | 1.04E+05 |
| 1/20 | 3.32 | -5.18E+03 | 4.94E+03 | -5.14E+03 | 4.98E+03 | -1.03E+05 | 9.95E+04 |
| 1/15 | 11.6 | -6.91E+03 | 6.80E+03 | -6.84E+03 | 6.83E+03 | -1.03E+05 | 1.02E+05 |
| 1/10 | 33.6 | -1.16E+04 | 1.16E+04 | -1.14E+04 | 1.16E+04 | -1.15E+05 | 1.15E+05 |

Table Q-1078. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------------------------|----------------------|----------------------------------------------|----------------------|--------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.506 | -1.74E+03 | 1.73E+03 | -1.73E+03 | 1.73E+03 | -1.04E+05 | 1.04E+05 |
| 1/20 | 3.32 | -5.18E+03 | 4.94E+03 | -5.14E+03 | 4.98E+03 | -1.03E+05 | 9.95E+04 |
| 1/15 | 11.6 | -6.91E+03 | 6.80E+03 | -6.84E+03 | 6.83E+03 | -1.03E+05 | 1.02E+05 |
| 1/10 | 33.6 | -1.16E+04 | 1.16E+04 | -1.14E+04 | 1.16E+04 | -1.15E+05 | 1.15E+05 |

Table Q-1079. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1080. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -5.70 | -1.83E+03 | 1.74E+03 | -1.81E+03 | 1.74E+03 | -1.08E+05 | 1.05E+05 |
| 1/20 | -11.3 | -5.79E+03 | 5.16E+03 | -5.71E+03 | 5.16E+03 | -1.14E+05 | 1.03E+05 |
| 1/15 | 11.2 | -8.32E+03 | 7.23E+03 | -8.24E+03 | 7.24E+03 | -1.24E+05 | 1.08E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

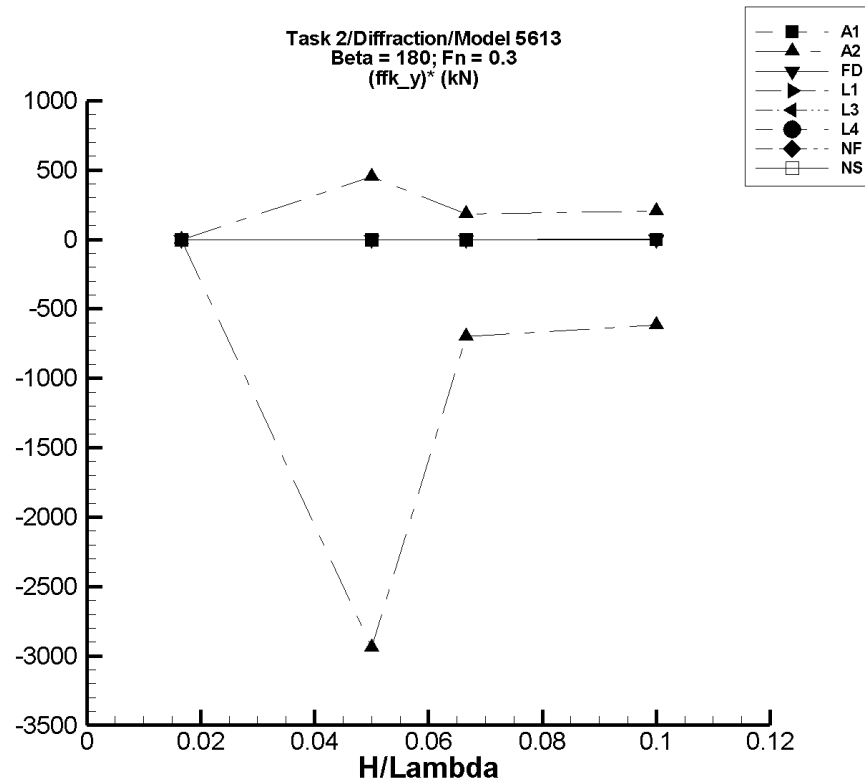


Figure Q-136. Minimum and maximum of filtered $(F_y^{fk} - \langle F_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1081. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.90E-06 | -2.95E-03 | 2.95E-03 | -2.86E-03 | 2.89E-03 | -0.172 | 0.173 |
| 1/20 | -5.70E-06 | -8.88E-03 | 8.87E-03 | -8.61E-03 | 8.68E-03 | -0.172 | 0.174 |
| 1/15 | -7.61E-06 | -1.19E-02 | 1.18E-02 | -1.15E-02 | 1.16E-02 | -0.172 | 0.174 |
| 1/10 | -1.14E-05 | -1.78E-02 | 1.78E-02 | -1.72E-02 | 1.74E-02 | -0.172 | 0.174 |

Table Q–1082. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.48E-05 | -2.12E-05 | 7.82E-05 | -6.69E-06 | 3.28E-05 | -1.29E-03 | 1.08E-03 |
| 1/20 | -9.14 | -1.17E+03 | 2.99E-04 | -156. | 13.4 | -2.94E+03 | 451. |
| 1/15 | -7.72 | -407. | 6.12E-04 | -54.3 | 4.63 | -699. | 185. |
| 1/10 | -8.23 | -525. | 55.2 | -69.9 | 12.3 | -617. | 205. |

Table Q–1083. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.74E-04 | -2.90E-03 | 2.46E-03 | -1.11E-03 | 1.29E-03 | -5.64E-02 | 8.80E-02 |
| 1/20 | -1.88E-04 | -1.54E-02 | 1.10E-02 | -4.27E-03 | 3.78E-03 | -8.16E-02 | 7.94E-02 |
| 1/15 | -4.15E-04 | -2.23E-02 | 1.74E-02 | -3.71E-03 | 4.82E-03 | -4.94E-02 | 7.86E-02 |
| 1/10 | 1.65E-03 | -4.43E-02 | 4.18E-02 | -1.53E-02 | 2.13E-02 | -0.170 | 0.197 |

Table Q–1084. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1085. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1086. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1087. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1088. Minimum and Maximum of Variables F_y^{fk} and $(F_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{fk}} \rangle$ | Unfiltered F_y^{fk} | | Filtered F_y^{fk} | | Filtered $(F_y^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 4.62E-05 | -1.39E-03 | 2.20E-03 | -3.96E-04 | 5.09E-04 | -2.65E-02 | 2.78E-02 |
| 1/20 | 8.19E-05 | -5.40E-03 | 3.86E-03 | -8.45E-04 | 9.57E-04 | -1.85E-02 | 1.75E-02 |
| 1/15 | -2.51E-05 | -1.03E-02 | 9.74E-03 | -1.50E-03 | 4.03E-03 | -2.21E-02 | 6.08E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

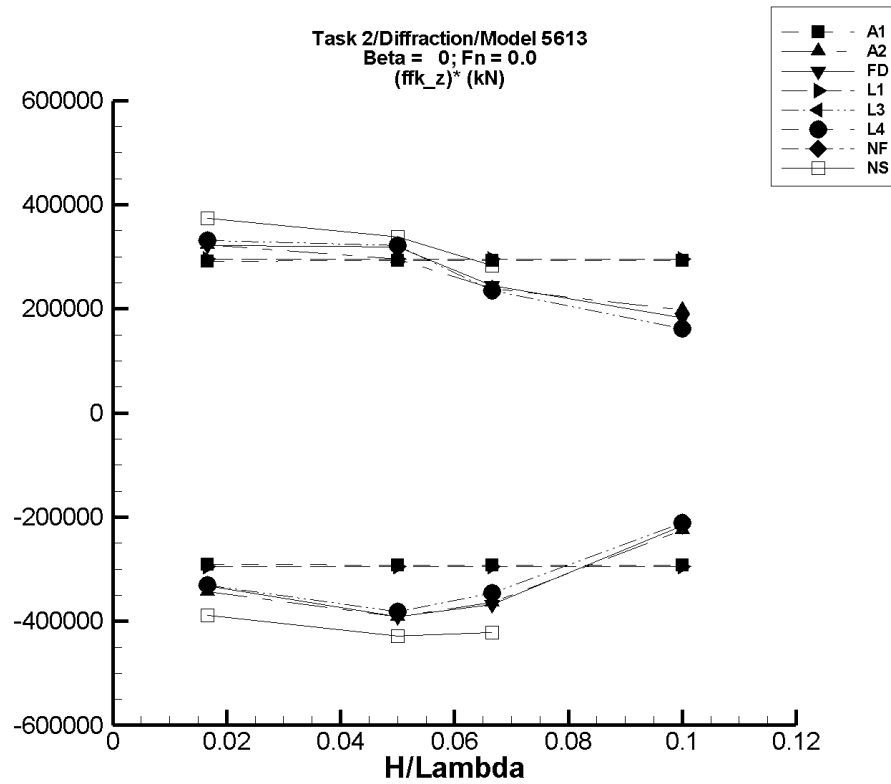


Figure Q-137. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1089. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.77 | -4.91E+03 | 4.91E+03 | -4.86E+03 | 4.85E+03 | -2.91E+05 | 2.92E+05 |
| 1/20 | -14.3 | -1.48E+04 | 1.48E+04 | -1.46E+04 | 1.46E+04 | -2.92E+05 | 2.92E+05 |
| 1/15 | -19.2 | -1.97E+04 | 1.97E+04 | -1.95E+04 | 1.95E+04 | -2.92E+05 | 2.93E+05 |
| 1/10 | -28.7 | -2.96E+04 | 2.96E+04 | -2.93E+04 | 2.92E+04 | -2.92E+05 | 2.93E+05 |

Table Q-1090. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 602. | -5.21E+03 | 5.99E+03 | -5.13E+03 | 5.98E+03 | -3.44E+05 | 3.23E+05 |
| 1/20 | 6.42E+03 | -1.34E+04 | 2.14E+04 | -1.31E+04 | 2.12E+04 | -3.91E+05 | 2.96E+05 |
| 1/15 | 1.34E+04 | -1.12E+04 | 2.95E+04 | -1.08E+04 | 2.94E+04 | -3.64E+05 | 2.39E+05 |
| 1/10 | 2.63E+04 | 3.15E+03 | 4.77E+04 | 3.82E+03 | 4.60E+04 | -2.25E+05 | 1.97E+05 |

Table Q-1091. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 710. | -4.87E+03 | 6.13E+03 | -4.82E+03 | 6.07E+03 | -3.32E+05 | 3.22E+05 |
| 1/20 | 5.44E+03 | -1.43E+04 | 2.15E+04 | -1.41E+04 | 2.14E+04 | -3.92E+05 | 3.19E+05 |
| 1/15 | 1.18E+04 | -1.31E+04 | 2.83E+04 | -1.28E+04 | 2.81E+04 | -3.69E+05 | 2.45E+05 |
| 1/10 | 2.76E+04 | 4.00E+03 | 4.63E+04 | 5.93E+03 | 4.59E+04 | -2.17E+05 | 1.83E+05 |

Table Q-1092. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.404 | -4.93E+03 | 4.93E+03 | -4.91E+03 | 4.91E+03 | -2.95E+05 | 2.95E+05 |
| 1/20 | -1.21 | -1.48E+04 | 1.48E+04 | -1.47E+04 | 1.47E+04 | -2.95E+05 | 2.95E+05 |
| 1/15 | -1.62 | -1.97E+04 | 1.97E+04 | -1.97E+04 | 1.97E+04 | -2.95E+05 | 2.95E+05 |
| 1/10 | -2.43 | -2.96E+04 | 2.96E+04 | -2.95E+04 | 2.95E+04 | -2.95E+05 | 2.95E+05 |

Table Q–1093. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 70.9 | -5.47E+03 | 5.62E+03 | -5.45E+03 | 5.60E+03 | -3.31E+05 | 3.32E+05 |
| 1/20 | 1.64E+03 | -1.75E+04 | 1.78E+04 | -1.75E+04 | 1.77E+04 | -3.82E+05 | 3.21E+05 |
| 1/15 | 6.31E+03 | -1.68E+04 | 2.20E+04 | -1.67E+04 | 2.20E+04 | -3.46E+05 | 2.35E+05 |
| 1/10 | 1.76E+04 | -6.37E+03 | 3.39E+04 | -3.56E+03 | 3.37E+04 | -2.11E+05 | 1.62E+05 |

Table Q–1094. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 70.9 | -5.47E+03 | 5.62E+03 | -5.45E+03 | 5.60E+03 | -3.31E+05 | 3.32E+05 |
| 1/20 | 1.64E+03 | -1.75E+04 | 1.78E+04 | -1.75E+04 | 1.77E+04 | -3.82E+05 | 3.21E+05 |
| 1/15 | 6.31E+03 | -1.68E+04 | 2.20E+04 | -1.67E+04 | 2.20E+04 | -3.46E+05 | 2.35E+05 |
| 1/10 | 1.76E+04 | -6.37E+03 | 3.39E+04 | -3.56E+03 | 3.37E+04 | -2.11E+05 | 1.62E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1095. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1096. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -298. | -6.84E+03 | 6.00E+03 | -6.77E+03 | 5.94E+03 | -3.88E+05 | 3.74E+05 |
| 1/20 | 577. | -2.11E+04 | 1.77E+04 | -2.08E+04 | 1.75E+04 | -4.28E+05 | 3.39E+05 |
| 1/15 | 3.42E+03 | -2.49E+04 | 2.26E+04 | -2.47E+04 | 2.23E+04 | -4.21E+05 | 2.83E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

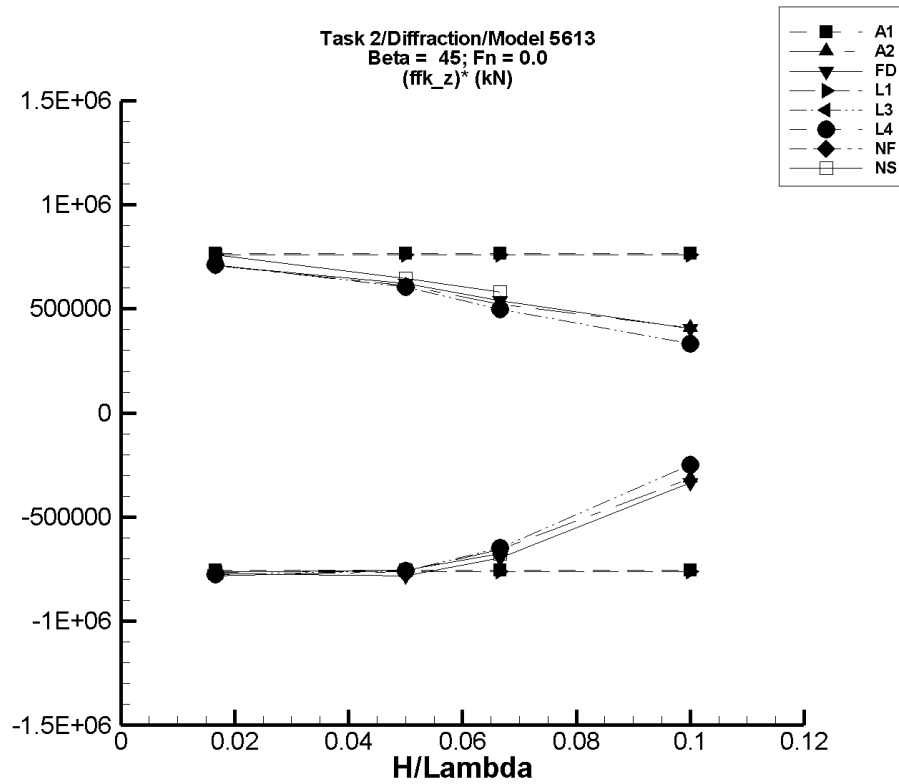


Figure Q-138. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1097. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.8 | -1.27E+04 | 1.27E+04 | -1.26E+04 | 1.27E+04 | -7.53E+05 | 7.65E+05 |
| 1/20 | -32.4 | -3.82E+04 | 3.82E+04 | -3.78E+04 | 3.83E+04 | -7.55E+05 | 7.67E+05 |
| 1/15 | -43.3 | -5.10E+04 | 5.10E+04 | -5.05E+04 | 5.11E+04 | -7.56E+05 | 7.68E+05 |
| 1/10 | -64.9 | -7.65E+04 | 7.65E+04 | -7.57E+04 | 7.67E+04 | -7.56E+05 | 7.68E+05 |

Table Q-1098. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 606. | -1.26E+04 | 1.24E+04 | -1.24E+04 | 1.24E+04 | -7.83E+05 | 7.08E+05 |
| 1/20 | 6.38E+03 | -3.22E+04 | 3.72E+04 | -3.18E+04 | 3.70E+04 | -7.63E+05 | 6.12E+05 |
| 1/15 | 1.33E+04 | -3.12E+04 | 4.87E+04 | -3.03E+04 | 4.82E+04 | -6.55E+05 | 5.23E+05 |
| 1/10 | 2.60E+04 | -5.78E+03 | 6.73E+04 | -5.36E+03 | 6.69E+04 | -3.14E+05 | 4.09E+05 |

Table Q–1099. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 716. | -1.23E+04 | 1.26E+04 | -1.22E+04 | 1.25E+04 | -7.72E+05 | 7.07E+05 |
| 1/20 | 5.33E+03 | -3.43E+04 | 3.67E+04 | -3.38E+04 | 3.65E+04 | -7.82E+05 | 6.23E+05 |
| 1/15 | 1.17E+04 | -3.56E+04 | 4.80E+04 | -3.46E+04 | 4.76E+04 | -6.95E+05 | 5.39E+05 |
| 1/10 | 2.71E+04 | -6.86E+03 | 6.76E+04 | -6.36E+03 | 6.75E+04 | -3.35E+05 | 4.04E+05 |

Table Q–1100. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.22 | -1.27E+04 | 1.27E+04 | -1.27E+04 | 1.27E+04 | -7.60E+05 | 7.60E+05 |
| 1/20 | 15.7 | -3.81E+04 | 3.81E+04 | -3.80E+04 | 3.80E+04 | -7.60E+05 | 7.60E+05 |
| 1/15 | 20.9 | -5.09E+04 | 5.09E+04 | -5.07E+04 | 5.07E+04 | -7.60E+05 | 7.60E+05 |
| 1/10 | 31.3 | -7.63E+04 | 7.63E+04 | -7.60E+04 | 7.60E+04 | -7.60E+05 | 7.60E+05 |

Table Q–1101. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 74.8 | -1.29E+04 | 1.20E+04 | -1.28E+04 | 1.19E+04 | -7.74E+05 | 7.12E+05 |
| 1/20 | 1.55E+03 | -3.66E+04 | 3.18E+04 | -3.64E+04 | 3.17E+04 | -7.59E+05 | 6.04E+05 |
| 1/15 | 6.36E+03 | -3.73E+04 | 3.97E+04 | -3.69E+04 | 3.95E+04 | -6.49E+05 | 4.97E+05 |
| 1/10 | 1.72E+04 | -8.40E+03 | 5.05E+04 | -7.84E+03 | 5.04E+04 | -2.51E+05 | 3.32E+05 |

Table Q–1102. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 74.8 | -1.29E+04 | 1.20E+04 | -1.28E+04 | 1.19E+04 | -7.74E+05 | 7.12E+05 |
| 1/20 | 1.55E+03 | -3.66E+04 | 3.18E+04 | -3.64E+04 | 3.17E+04 | -7.59E+05 | 6.04E+05 |
| 1/15 | 6.36E+03 | -3.73E+04 | 3.97E+04 | -3.69E+04 | 3.95E+04 | -6.49E+05 | 4.97E+05 |
| 1/10 | 1.72E+04 | -8.40E+03 | 5.05E+04 | -7.84E+03 | 5.04E+04 | -2.51E+05 | 3.32E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1103. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1104. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -312. | -1.32E+04 | 1.23E+04 | -1.31E+04 | 1.23E+04 | -7.65E+05 | 7.60E+05 |
| 1/20 | 245. | -3.79E+04 | 3.25E+04 | -3.74E+04 | 3.25E+04 | -7.54E+05 | 6.45E+05 |
| 1/15 | 2.31E+03 | -4.30E+04 | 4.10E+04 | -4.27E+04 | 4.11E+04 | -6.74E+05 | 5.82E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

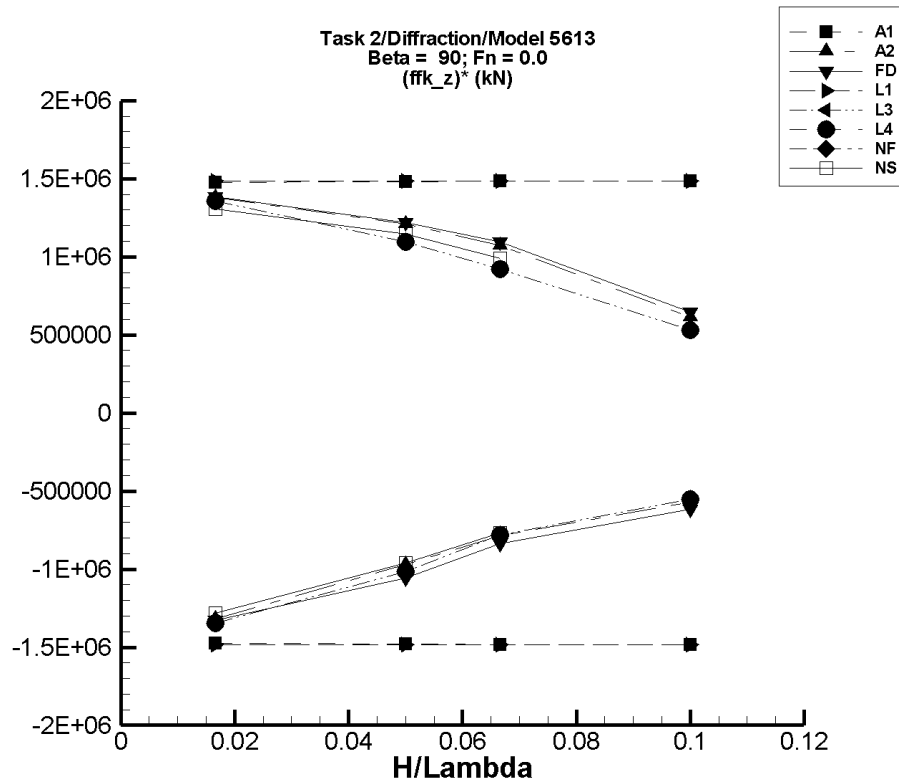


Figure Q-139. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1105. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -15.7 | -2.49E+04 | 2.49E+04 | -2.46E+04 | 2.46E+04 | -1.48E+06 | 1.48E+06 |
| 1/20 | -47.3 | -7.48E+04 | 7.48E+04 | -7.41E+04 | 7.40E+04 | -1.48E+06 | 1.48E+06 |
| 1/15 | -63.1 | -9.99E+04 | 9.99E+04 | -9.89E+04 | 9.88E+04 | -1.48E+06 | 1.48E+06 |
| 1/10 | -94.7 | -1.50E+05 | 1.50E+05 | -1.48E+05 | 1.48E+05 | -1.48E+06 | 1.48E+06 |

Table Q–1106. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 610. | -2.15E+04 | 2.38E+04 | -2.13E+04 | 2.36E+04 | -1.32E+06 | 1.38E+06 |
| 1/20 | 6.51E+03 | -4.22E+04 | 6.82E+04 | -4.20E+04 | 6.71E+04 | -9.70E+05 | 1.21E+06 |
| 1/15 | 1.38E+04 | -3.99E+04 | 8.63E+04 | -3.86E+04 | 8.52E+04 | -7.86E+05 | 1.07E+06 |
| 1/10 | 2.69E+04 | -3.39E+04 | 9.33E+04 | -2.99E+04 | 8.84E+04 | -5.69E+05 | 6.15E+05 |

Table Q-1107. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 734. | -2.14E+04 | 2.41E+04 | -2.14E+04 | 2.38E+04 | -1.33E+06 | 1.39E+06 |
| 1/20 | 5.56E+03 | -4.71E+04 | 6.71E+04 | -4.72E+04 | 6.65E+04 | -1.06E+06 | 1.22E+06 |
| 1/15 | 1.25E+04 | -4.43E+04 | 8.62E+04 | -4.34E+04 | 8.54E+04 | -8.38E+05 | 1.09E+06 |
| 1/10 | 2.86E+04 | -3.84E+04 | 9.53E+04 | -3.31E+04 | 9.29E+04 | -6.17E+05 | 6.43E+05 |

Table Q-1108. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.3 | -2.48E+04 | 2.48E+04 | -2.47E+04 | 2.48E+04 | -1.48E+06 | 1.49E+06 |
| 1/20 | -30.8 | -7.45E+04 | 7.45E+04 | -7.42E+04 | 7.43E+04 | -1.48E+06 | 1.49E+06 |
| 1/15 | -41.0 | -9.93E+04 | 9.94E+04 | -9.90E+04 | 9.90E+04 | -1.48E+06 | 1.49E+06 |
| 1/10 | -61.6 | -1.49E+05 | 1.49E+05 | -1.48E+05 | 1.49E+05 | -1.48E+06 | 1.49E+06 |

Table Q–1109. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 65.5 | -2.24E+04 | 2.27E+04 | -2.23E+04 | 2.26E+04 | -1.34E+06 | 1.35E+06 |
| 1/20 | 1.56E+03 | -4.93E+04 | 5.64E+04 | -4.92E+04 | 5.63E+04 | -1.02E+06 | 1.09E+06 |
| 1/15 | 6.30E+03 | -4.64E+04 | 6.80E+04 | -4.59E+04 | 6.78E+04 | -7.83E+05 | 9.23E+05 |
| 1/10 | 1.71E+04 | -3.94E+04 | 7.55E+04 | -3.82E+04 | 7.03E+04 | -5.53E+05 | 5.32E+05 |

Table Q–1110. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 65.5 | -2.24E+04 | 2.27E+04 | -2.23E+04 | 2.26E+04 | -1.34E+06 | 1.35E+06 |
| 1/20 | 1.56E+03 | -4.93E+04 | 5.64E+04 | -4.92E+04 | 5.63E+04 | -1.02E+06 | 1.09E+06 |
| 1/15 | 6.30E+03 | -4.64E+04 | 6.80E+04 | -4.59E+04 | 6.78E+04 | -7.83E+05 | 9.23E+05 |
| 1/10 | 1.71E+04 | -3.94E+04 | 7.55E+04 | -3.82E+04 | 7.03E+04 | -5.53E+05 | 5.32E+05 |

Table Q-1111. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1112. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -323. | -2.19E+04 | 2.16E+04 | -2.17E+04 | 2.14E+04 | -1.28E+06 | 1.30E+06 |
| 1/20 | 2.98 | -4.86E+04 | 5.77E+04 | -4.81E+04 | 5.74E+04 | -9.63E+05 | 1.15E+06 |
| 1/15 | 1.53E+03 | -5.02E+04 | 6.76E+04 | -4.96E+04 | 6.76E+04 | -7.67E+05 | 9.90E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

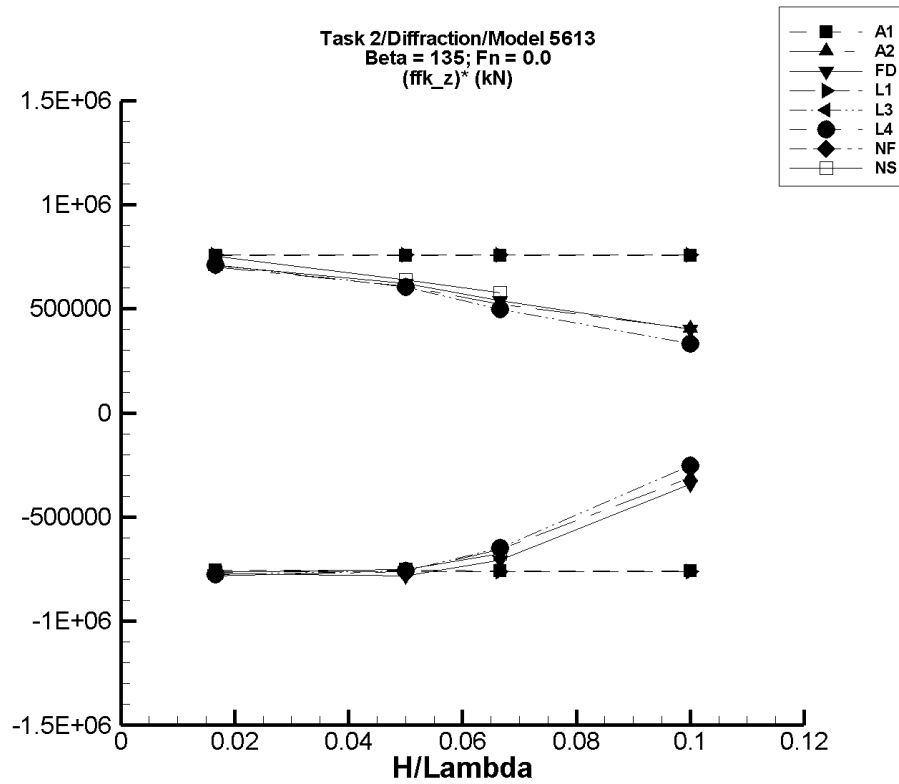


Figure Q-140. Minimum and maximum of filtered $(F_z^{fk} - \langle F_z^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1113. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.51 | -1.27E+04 | 1.27E+04 | -1.26E+04 | 1.26E+04 | -7.54E+05 | 7.54E+05 |
| 1/20 | -13.6 | -3.82E+04 | 3.82E+04 | -3.78E+04 | 3.78E+04 | -7.56E+05 | 7.56E+05 |
| 1/15 | -18.1 | -5.10E+04 | 5.10E+04 | -5.05E+04 | 5.05E+04 | -7.57E+05 | 7.57E+05 |
| 1/10 | -27.2 | -7.65E+04 | 7.65E+04 | -7.57E+04 | 7.57E+04 | -7.57E+05 | 7.57E+05 |

Table Q-1114. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 613. | -1.26E+04 | 1.24E+04 | -1.24E+04 | 1.23E+04 | -7.83E+05 | 7.00E+05 |
| 1/20 | 6.36E+03 | -3.22E+04 | 3.69E+04 | -3.18E+04 | 3.68E+04 | -7.63E+05 | 6.08E+05 |
| 1/15 | 1.33E+04 | -3.12E+04 | 4.87E+04 | -3.03E+04 | 4.82E+04 | -6.55E+05 | 5.24E+05 |
| 1/10 | 2.59E+04 | -5.74E+03 | 6.73E+04 | -5.36E+03 | 6.62E+04 | -3.13E+05 | 4.03E+05 |

Table Q-1115. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 725. | -1.23E+04 | 1.26E+04 | -1.22E+04 | 1.25E+04 | -7.73E+05 | 7.06E+05 |
| 1/20 | 5.39E+03 | -3.43E+04 | 3.67E+04 | -3.38E+04 | 3.65E+04 | -7.83E+05 | 6.22E+05 |
| 1/15 | 1.17E+04 | -3.56E+04 | 4.80E+04 | -3.55E+04 | 4.76E+04 | -7.08E+05 | 5.39E+05 |
| 1/10 | 2.74E+04 | -6.83E+03 | 6.75E+04 | -6.80E+03 | 6.75E+04 | -3.42E+05 | 4.01E+05 |

Table Q-1116. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.77 | -1.27E+04 | 1.27E+04 | -1.27E+04 | 1.27E+04 | -7.60E+05 | 7.60E+05 |
| 1/20 | 17.3 | -3.81E+04 | 3.81E+04 | -3.80E+04 | 3.80E+04 | -7.60E+05 | 7.60E+05 |
| 1/15 | 23.1 | -5.09E+04 | 5.09E+04 | -5.07E+04 | 5.07E+04 | -7.60E+05 | 7.60E+05 |
| 1/10 | 34.6 | -7.63E+04 | 7.63E+04 | -7.60E+04 | 7.60E+04 | -7.60E+05 | 7.60E+05 |

Table Q–1117. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 75.8 | -1.29E+04 | 1.20E+04 | -1.28E+04 | 1.19E+04 | -7.74E+05 | 7.12E+05 |
| 1/20 | 1.56E+03 | -3.66E+04 | 3.18E+04 | -3.64E+04 | 3.17E+04 | -7.60E+05 | 6.04E+05 |
| 1/15 | 6.31E+03 | -3.73E+04 | 3.97E+04 | -3.69E+04 | 3.95E+04 | -6.49E+05 | 4.98E+05 |
| 1/10 | 1.73E+04 | -8.40E+03 | 5.05E+04 | -7.84E+03 | 5.04E+04 | -2.51E+05 | 3.31E+05 |

Table Q–1118. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 75.8 | -1.29E+04 | 1.20E+04 | -1.28E+04 | 1.19E+04 | -7.74E+05 | 7.12E+05 |
| 1/20 | 1.56E+03 | -3.66E+04 | 3.18E+04 | -3.64E+04 | 3.17E+04 | -7.60E+05 | 6.04E+05 |
| 1/15 | 6.31E+03 | -3.73E+04 | 3.97E+04 | -3.69E+04 | 3.95E+04 | -6.49E+05 | 4.98E+05 |
| 1/10 | 1.73E+04 | -8.40E+03 | 5.05E+04 | -7.84E+03 | 5.04E+04 | -2.51E+05 | 3.31E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1119. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1120. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -312. | -1.32E+04 | 1.23E+04 | -1.31E+04 | 1.22E+04 | -7.65E+05 | 7.51E+05 |
| 1/20 | 185. | -3.79E+04 | 3.25E+04 | -3.75E+04 | 3.21E+04 | -7.53E+05 | 6.39E+05 |
| 1/15 | 2.28E+03 | -4.31E+04 | 4.09E+04 | -4.27E+04 | 4.07E+04 | -6.75E+05 | 5.76E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

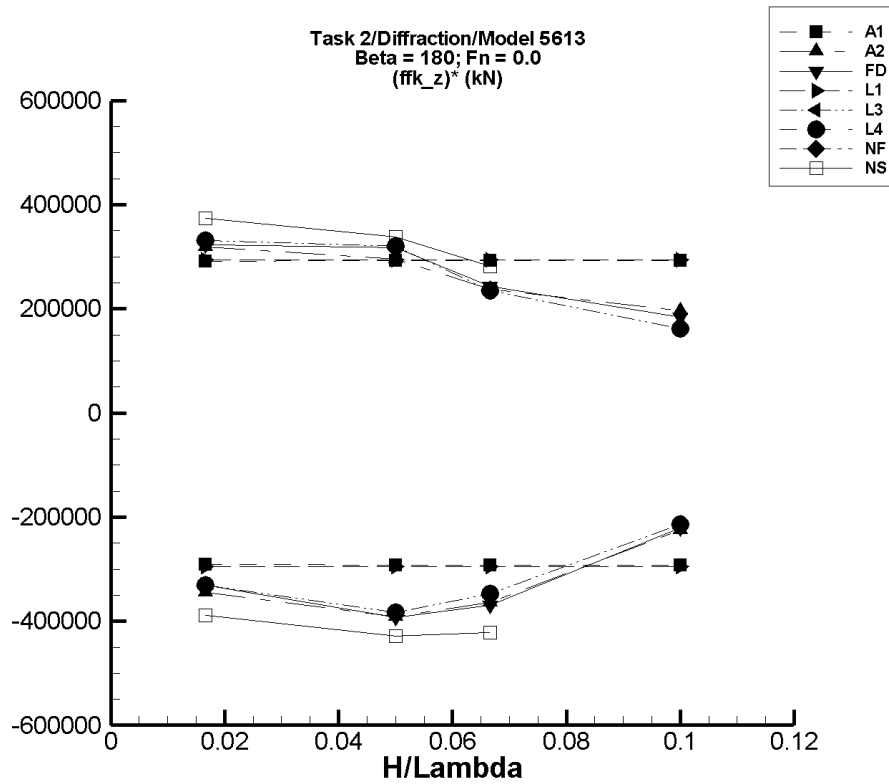


Figure Q-141. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1121. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.385 | -4.91E+03 | 4.91E+03 | -4.86E+03 | 4.86E+03 | -2.91E+05 | 2.91E+05 |
| 1/20 | -1.16 | -1.48E+04 | 1.48E+04 | -1.46E+04 | 1.46E+04 | -2.92E+05 | 2.92E+05 |
| 1/15 | -1.55 | -1.97E+04 | 1.97E+04 | -1.95E+04 | 1.95E+04 | -2.92E+05 | 2.93E+05 |
| 1/10 | -2.32 | -2.95E+04 | 2.96E+04 | -2.92E+04 | 2.93E+04 | -2.92E+05 | 2.93E+05 |

Table Q-1122. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 607. | -5.21E+03 | 5.99E+03 | -5.13E+03 | 5.93E+03 | -3.44E+05 | 3.20E+05 |
| 1/20 | 6.43E+03 | -1.34E+04 | 2.13E+04 | -1.31E+04 | 2.12E+04 | -3.91E+05 | 2.96E+05 |
| 1/15 | 1.34E+04 | -1.12E+04 | 2.94E+04 | -1.09E+04 | 2.92E+04 | -3.64E+05 | 2.37E+05 |
| 1/10 | 2.63E+04 | -472. | 4.76E+04 | 3.79E+03 | 4.60E+04 | -2.25E+05 | 1.97E+05 |

Table Q-1123. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 699. | -4.87E+03 | 6.13E+03 | -4.82E+03 | 6.07E+03 | -3.31E+05 | 3.23E+05 |
| 1/20 | 5.49E+03 | -1.43E+04 | 2.16E+04 | -1.41E+04 | 2.14E+04 | -3.92E+05 | 3.17E+05 |
| 1/15 | 1.19E+04 | -1.31E+04 | 2.83E+04 | -1.28E+04 | 2.81E+04 | -3.70E+05 | 2.44E+05 |
| 1/10 | 2.75E+04 | 3.15E+03 | 4.62E+04 | 5.46E+03 | 4.59E+04 | -2.20E+05 | 1.84E+05 |

Table Q-1124. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 4.28 | -4.93E+03 | 4.93E+03 | -4.91E+03 | 4.91E+03 | -2.95E+05 | 2.95E+05 |
| 1/20 | 12.9 | -1.48E+04 | 1.48E+04 | -1.47E+04 | 1.47E+04 | -2.95E+05 | 2.95E+05 |
| 1/15 | 17.1 | -1.97E+04 | 1.97E+04 | -1.97E+04 | 1.97E+04 | -2.95E+05 | 2.95E+05 |
| 1/10 | 25.7 | -2.96E+04 | 2.96E+04 | -2.95E+04 | 2.95E+04 | -2.95E+05 | 2.95E+05 |

Table Q–1125. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 71.4 | -5.47E+03 | 5.62E+03 | -5.45E+03 | 5.60E+03 | -3.31E+05 | 3.32E+05 |
| 1/20 | 1.71E+03 | -1.75E+04 | 1.78E+04 | -1.75E+04 | 1.77E+04 | -3.83E+05 | 3.20E+05 |
| 1/15 | 6.31E+03 | -1.68E+04 | 2.20E+04 | -1.69E+04 | 2.20E+04 | -3.48E+05 | 2.35E+05 |
| 1/10 | 1.75E+04 | -6.44E+03 | 3.39E+04 | -3.84E+03 | 3.37E+04 | -2.14E+05 | 1.62E+05 |

Table Q–1126. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 71.4 | -5.47E+03 | 5.62E+03 | -5.45E+03 | 5.60E+03 | -3.31E+05 | 3.32E+05 |
| 1/20 | 1.71E+03 | -1.75E+04 | 1.78E+04 | -1.75E+04 | 1.77E+04 | -3.83E+05 | 3.20E+05 |
| 1/15 | 6.31E+03 | -1.68E+04 | 2.20E+04 | -1.69E+04 | 2.20E+04 | -3.48E+05 | 2.35E+05 |
| 1/10 | 1.75E+04 | -6.44E+03 | 3.39E+04 | -3.84E+03 | 3.37E+04 | -2.14E+05 | 1.62E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1127. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1128. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -295. | -6.84E+03 | 6.00E+03 | -6.77E+03 | 5.94E+03 | -3.88E+05 | 3.74E+05 |
| 1/20 | 597. | -2.11E+04 | 1.77E+04 | -2.09E+04 | 1.75E+04 | -4.29E+05 | 3.38E+05 |
| 1/15 | 3.38E+03 | -2.49E+04 | 2.28E+04 | -2.47E+04 | 2.22E+04 | -4.21E+05 | 2.82E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

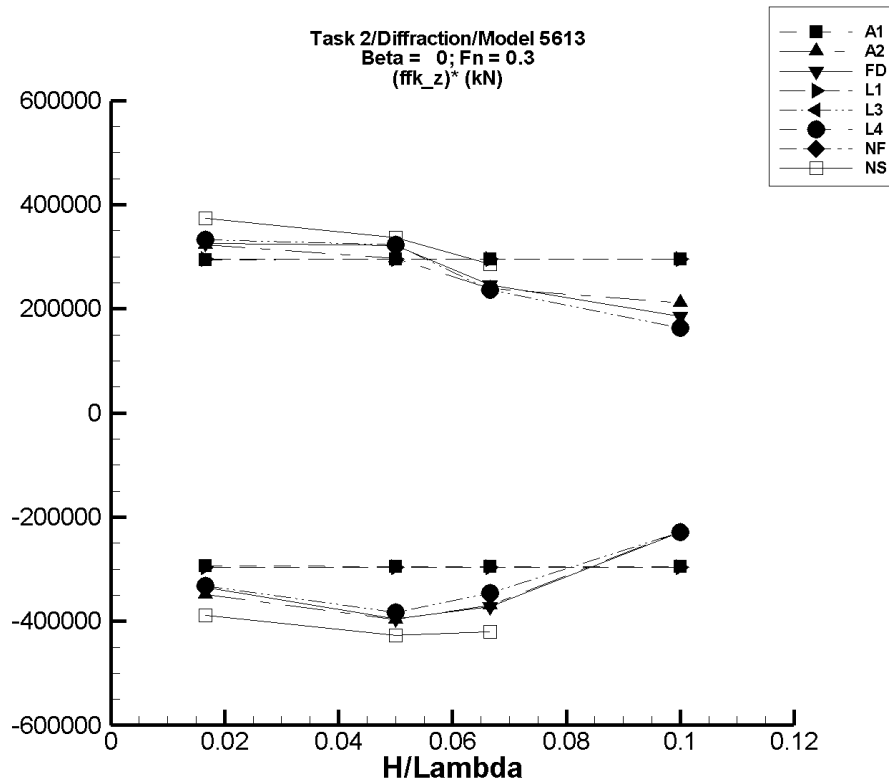


Figure Q-142. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1129. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.166 | -4.91E+03 | 4.91E+03 | -4.90E+03 | 4.90E+03 | -2.94E+05 | 2.94E+05 |
| 1/20 | -0.498 | -1.48E+04 | 1.48E+04 | -1.47E+04 | 1.47E+04 | -2.95E+05 | 2.95E+05 |
| 1/15 | -0.664 | -1.97E+04 | 1.97E+04 | -1.97E+04 | 1.97E+04 | -2.95E+05 | 2.95E+05 |
| 1/10 | -0.998 | -2.96E+04 | 2.96E+04 | -2.95E+04 | 2.95E+04 | -2.95E+05 | 2.95E+05 |

Table Q–1130. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 606. | -5.21E+03 | 5.99E+03 | -5.21E+03 | 5.99E+03 | -3.49E+05 | 3.23E+05 |
| 1/20 | 6.43E+03 | -1.34E+04 | 2.14E+04 | -1.34E+04 | 2.13E+04 | -3.97E+05 | 2.98E+05 |
| 1/15 | 1.35E+04 | -1.12E+04 | 2.95E+04 | -1.12E+04 | 2.94E+04 | -3.69E+05 | 2.40E+05 |
| 1/10 | 2.62E+04 | -476. | 4.80E+04 | 3.47E+03 | 4.74E+04 | -2.28E+05 | 2.12E+05 |

Table Q-1131. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 706. | -4.87E+03 | 6.13E+03 | -4.87E+03 | 6.13E+03 | -3.34E+05 | 3.25E+05 |
| 1/20 | 5.45E+03 | -1.44E+04 | 2.16E+04 | -1.43E+04 | 2.15E+04 | -3.96E+05 | 3.21E+05 |
| 1/15 | 1.18E+04 | -1.31E+04 | 2.83E+04 | -1.31E+04 | 2.82E+04 | -3.73E+05 | 2.46E+05 |
| 1/10 | 2.75E+04 | 3.09E+03 | 4.63E+04 | 4.64E+03 | 4.61E+04 | -2.29E+05 | 1.86E+05 |

Table Q-1132. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.699 | -4.93E+03 | 4.93E+03 | -4.93E+03 | 4.93E+03 | -2.96E+05 | 2.96E+05 |
| 1/20 | 2.10 | -1.48E+04 | 1.48E+04 | -1.48E+04 | 1.48E+04 | -2.96E+05 | 2.96E+05 |
| 1/15 | 2.79 | -1.97E+04 | 1.97E+04 | -1.97E+04 | 1.97E+04 | -2.96E+05 | 2.96E+05 |
| 1/10 | 4.19 | -2.96E+04 | 2.96E+04 | -2.96E+04 | 2.96E+04 | -2.96E+05 | 2.96E+05 |

Table Q–1133. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 81.4 | -5.47E+03 | 5.62E+03 | -5.46E+03 | 5.62E+03 | -3.33E+05 | 3.32E+05 |
| 1/20 | 1.63E+03 | -1.75E+04 | 1.78E+04 | -1.75E+04 | 1.78E+04 | -3.83E+05 | 3.22E+05 |
| 1/15 | 6.25E+03 | -1.68E+04 | 2.20E+04 | -1.68E+04 | 2.20E+04 | -3.46E+05 | 2.37E+05 |
| 1/10 | 1.75E+04 | -6.44E+03 | 3.39E+04 | -5.42E+03 | 3.39E+04 | -2.30E+05 | 1.63E+05 |

Table Q–1134. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 81.4 | -5.47E+03 | 5.62E+03 | -5.46E+03 | 5.62E+03 | -3.33E+05 | 3.32E+05 |
| 1/20 | 1.63E+03 | -1.75E+04 | 1.78E+04 | -1.75E+04 | 1.78E+04 | -3.83E+05 | 3.22E+05 |
| 1/15 | 6.25E+03 | -1.68E+04 | 2.20E+04 | -1.68E+04 | 2.20E+04 | -3.46E+05 | 2.37E+05 |
| 1/10 | 1.75E+04 | -6.44E+03 | 3.39E+04 | -5.42E+03 | 3.39E+04 | -2.30E+05 | 1.63E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1135. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1136. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -300. | -6.84E+03 | 6.00E+03 | -6.77E+03 | 5.94E+03 | -3.88E+05 | 3.75E+05 |
| 1/20 | 566. | -2.11E+04 | 1.77E+04 | -2.08E+04 | 1.74E+04 | -4.28E+05 | 3.37E+05 |
| 1/15 | 3.41E+03 | -2.49E+04 | 2.26E+04 | -2.46E+04 | 2.24E+04 | -4.21E+05 | 2.85E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

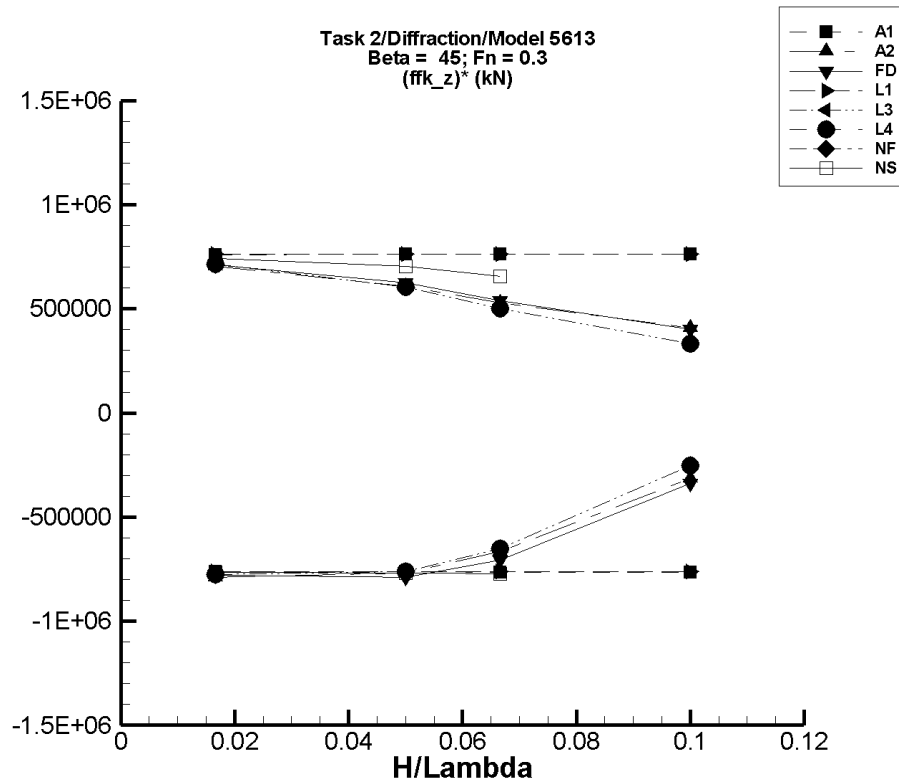


Figure Q-143. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1137. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.85 | -1.27E+04 | 1.27E+04 | -1.27E+04 | 1.27E+04 | -7.61E+05 | 7.60E+05 |
| 1/20 | 11.6 | -3.82E+04 | 3.82E+04 | -3.81E+04 | 3.81E+04 | -7.63E+05 | 7.62E+05 |
| 1/15 | 15.5 | -5.10E+04 | 5.10E+04 | -5.09E+04 | 5.09E+04 | -7.64E+05 | 7.63E+05 |
| 1/10 | 23.2 | -7.65E+04 | 7.65E+04 | -7.63E+04 | 7.63E+04 | -7.64E+05 | 7.63E+05 |

Table Q-1138. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 618. | -1.26E+04 | 1.24E+04 | -1.26E+04 | 1.24E+04 | -7.90E+05 | 7.04E+05 |
| 1/20 | 6.43E+03 | -3.22E+04 | 3.70E+04 | -3.21E+04 | 3.69E+04 | -7.70E+05 | 6.09E+05 |
| 1/15 | 1.34E+04 | -3.12E+04 | 4.88E+04 | -3.10E+04 | 4.86E+04 | -6.65E+05 | 5.28E+05 |
| 1/10 | 2.59E+04 | -5.79E+03 | 6.73E+04 | -5.58E+03 | 6.69E+04 | -3.15E+05 | 4.10E+05 |

Table Q-1139. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 709. | -1.23E+04 | 1.26E+04 | -1.23E+04 | 1.26E+04 | -7.78E+05 | 7.11E+05 |
| 1/20 | 5.39E+03 | -3.43E+04 | 3.67E+04 | -3.41E+04 | 3.66E+04 | -7.91E+05 | 6.25E+05 |
| 1/15 | 1.18E+04 | -3.56E+04 | 4.80E+04 | -3.54E+04 | 4.79E+04 | -7.08E+05 | 5.41E+05 |
| 1/10 | 2.72E+04 | -6.89E+03 | 6.76E+04 | -6.71E+03 | 6.75E+04 | -3.39E+05 | 4.03E+05 |

Table Q-1140. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.40 | -1.27E+04 | 1.27E+04 | -1.27E+04 | 1.27E+04 | -7.62E+05 | 7.62E+05 |
| 1/20 | 7.21 | -3.81E+04 | 3.81E+04 | -3.81E+04 | 3.81E+04 | -7.62E+05 | 7.62E+05 |
| 1/15 | 9.61 | -5.09E+04 | 5.09E+04 | -5.08E+04 | 5.08E+04 | -7.62E+05 | 7.62E+05 |
| 1/10 | 14.4 | -7.63E+04 | 7.63E+04 | -7.62E+04 | 7.62E+04 | -7.62E+05 | 7.62E+05 |

Table Q-1141. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 79.7 | -1.29E+04 | 1.20E+04 | -1.29E+04 | 1.20E+04 | -7.76E+05 | 7.14E+05 |
| 1/20 | 1.59E+03 | -3.66E+04 | 3.18E+04 | -3.66E+04 | 3.18E+04 | -7.63E+05 | 6.04E+05 |
| 1/15 | 6.25E+03 | -3.73E+04 | 3.97E+04 | -3.72E+04 | 3.96E+04 | -6.52E+05 | 5.01E+05 |
| 1/10 | 1.73E+04 | -8.37E+03 | 5.05E+04 | -7.95E+03 | 5.05E+04 | -2.52E+05 | 3.32E+05 |

Table Q-1142. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 79.7 | -1.29E+04 | 1.20E+04 | -1.29E+04 | 1.20E+04 | -7.76E+05 | 7.14E+05 |
| 1/20 | 1.59E+03 | -3.66E+04 | 3.18E+04 | -3.66E+04 | 3.18E+04 | -7.63E+05 | 6.04E+05 |
| 1/15 | 6.25E+03 | -3.73E+04 | 3.97E+04 | -3.72E+04 | 3.96E+04 | -6.52E+05 | 5.01E+05 |
| 1/10 | 1.73E+04 | -8.37E+03 | 5.05E+04 | -7.95E+03 | 5.05E+04 | -2.52E+05 | 3.32E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1143. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1144. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -280. | -1.32E+04 | 1.22E+04 | -1.31E+04 | 1.21E+04 | -7.67E+05 | 7.42E+05 |
| 1/20 | -1.86E+03 | -4.08E+04 | 3.34E+04 | -4.03E+04 | 3.33E+04 | -7.70E+05 | 7.03E+05 |
| 1/15 | -1.90E+03 | -5.38E+04 | 4.19E+04 | -5.34E+04 | 4.19E+04 | -7.73E+05 | 6.56E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

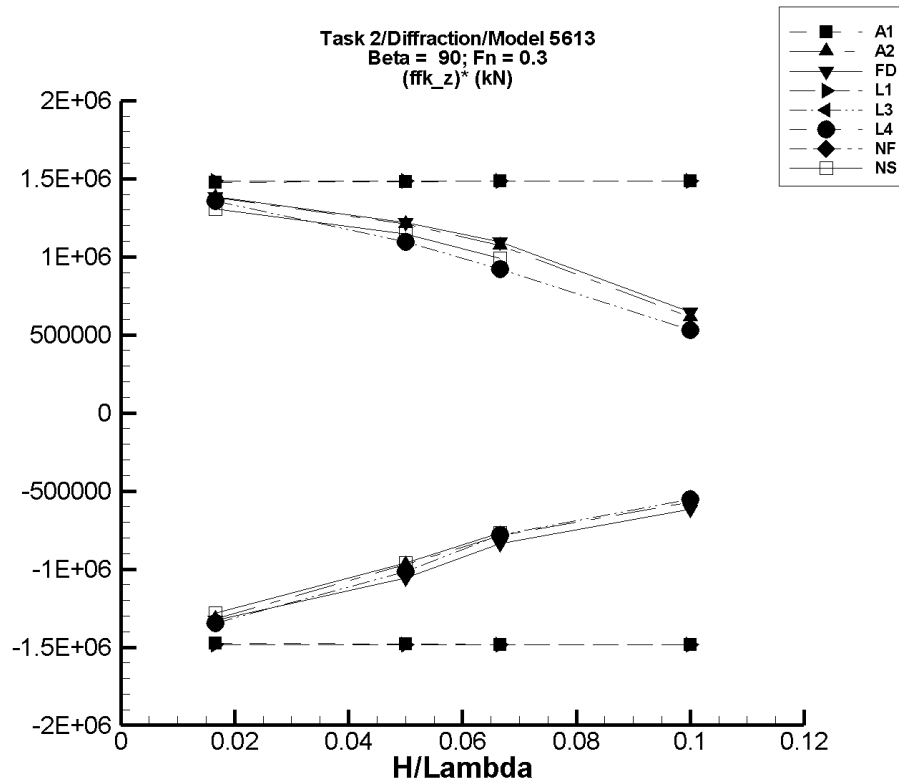


Figure Q-144. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1145. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -15.7 | -2.49E+04 | 2.49E+04 | -2.46E+04 | 2.46E+04 | -1.48E+06 | 1.48E+06 |
| 1/20 | -47.3 | -7.48E+04 | 7.48E+04 | -7.41E+04 | 7.40E+04 | -1.48E+06 | 1.48E+06 |
| 1/15 | -63.1 | -9.99E+04 | 9.99E+04 | -9.89E+04 | 9.88E+04 | -1.48E+06 | 1.48E+06 |
| 1/10 | -94.7 | -1.50E+05 | 1.50E+05 | -1.48E+05 | 1.48E+05 | -1.48E+06 | 1.48E+06 |

Table Q–1146. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 610. | -2.15E+04 | 2.38E+04 | -2.13E+04 | 2.36E+04 | -1.32E+06 | 1.38E+06 |
| 1/20 | 6.51E+03 | -4.22E+04 | 6.82E+04 | -4.20E+04 | 6.71E+04 | -9.70E+05 | 1.21E+06 |
| 1/15 | 1.37E+04 | -3.99E+04 | 8.63E+04 | -3.86E+04 | 8.52E+04 | -7.85E+05 | 1.07E+06 |
| 1/10 | 2.69E+04 | -3.39E+04 | 9.33E+04 | -2.99E+04 | 8.84E+04 | -5.69E+05 | 6.15E+05 |

Table Q-1147. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 734. | -2.14E+04 | 2.41E+04 | -2.14E+04 | 2.38E+04 | -1.33E+06 | 1.39E+06 |
| 1/20 | 5.56E+03 | -4.71E+04 | 6.71E+04 | -4.72E+04 | 6.65E+04 | -1.06E+06 | 1.22E+06 |
| 1/15 | 1.25E+04 | -4.43E+04 | 8.62E+04 | -4.34E+04 | 8.54E+04 | -8.38E+05 | 1.09E+06 |
| 1/10 | 2.86E+04 | -3.84E+04 | 9.53E+04 | -3.31E+04 | 9.29E+04 | -6.17E+05 | 6.43E+05 |

Table Q-1148. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -10.3 | -2.48E+04 | 2.48E+04 | -2.47E+04 | 2.48E+04 | -1.48E+06 | 1.49E+06 |
| 1/20 | -30.8 | -7.45E+04 | 7.45E+04 | -7.42E+04 | 7.43E+04 | -1.48E+06 | 1.49E+06 |
| 1/15 | -41.1 | -9.93E+04 | 9.94E+04 | -9.90E+04 | 9.90E+04 | -1.48E+06 | 1.49E+06 |
| 1/10 | -61.6 | -1.49E+05 | 1.49E+05 | -1.48E+05 | 1.49E+05 | -1.48E+06 | 1.49E+06 |

Table Q-1149. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 65.5 | -2.24E+04 | 2.27E+04 | -2.23E+04 | 2.26E+04 | -1.34E+06 | 1.35E+06 |
| 1/20 | 1.56E+03 | -4.93E+04 | 5.64E+04 | -4.92E+04 | 5.63E+04 | -1.02E+06 | 1.09E+06 |
| 1/15 | 6.30E+03 | -4.64E+04 | 6.80E+04 | -4.59E+04 | 6.78E+04 | -7.83E+05 | 9.23E+05 |
| 1/10 | 1.71E+04 | -3.94E+04 | 7.55E+04 | -3.82E+04 | 7.03E+04 | -5.53E+05 | 5.32E+05 |

Table Q-1150. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 65.5 | -2.24E+04 | 2.27E+04 | -2.23E+04 | 2.26E+04 | -1.34E+06 | 1.35E+06 |
| 1/20 | 1.56E+03 | -4.93E+04 | 5.64E+04 | -4.92E+04 | 5.63E+04 | -1.02E+06 | 1.09E+06 |
| 1/15 | 6.30E+03 | -4.64E+04 | 6.80E+04 | -4.59E+04 | 6.78E+04 | -7.83E+05 | 9.23E+05 |
| 1/10 | 1.71E+04 | -3.94E+04 | 7.55E+04 | -3.82E+04 | 7.03E+04 | -5.53E+05 | 5.32E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1151. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1152. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -323. | -2.19E+04 | 2.16E+04 | -2.17E+04 | 2.14E+04 | -1.28E+06 | 1.30E+06 |
| 1/20 | 2.99 | -4.86E+04 | 5.77E+04 | -4.81E+04 | 5.74E+04 | -9.63E+05 | 1.15E+06 |
| 1/15 | 1.53E+03 | -5.02E+04 | 6.76E+04 | -4.96E+04 | 6.76E+04 | -7.67E+05 | 9.90E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

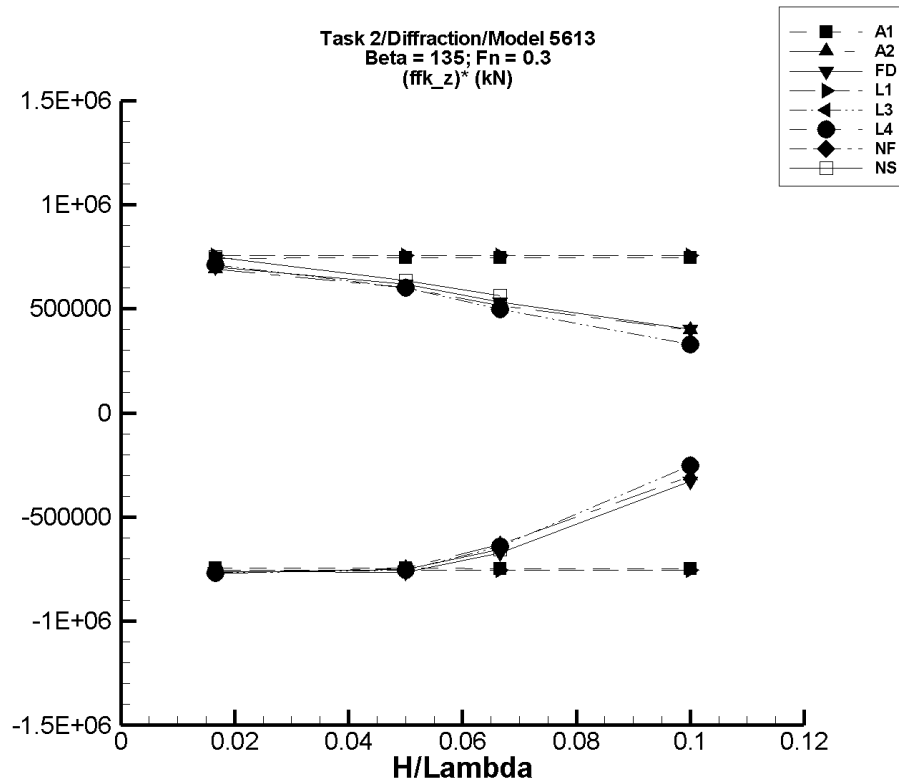


Figure Q-145. Minimum and maximum of filtered $(F_z^{fk} - \langle F_z^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1153. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.56 | -1.27E+04 | 1.27E+04 | -1.24E+04 | 1.24E+04 | -7.44E+05 | 7.44E+05 |
| 1/20 | -10.7 | -3.82E+04 | 3.82E+04 | -3.73E+04 | 3.73E+04 | -7.46E+05 | 7.46E+05 |
| 1/15 | -14.3 | -5.10E+04 | 5.10E+04 | -4.98E+04 | 4.98E+04 | -7.47E+05 | 7.47E+05 |
| 1/10 | -21.5 | -7.65E+04 | 7.65E+04 | -7.47E+04 | 7.47E+04 | -7.47E+05 | 7.47E+05 |

Table Q–1154. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 608. | -1.26E+04 | 1.24E+04 | -1.23E+04 | 1.21E+04 | -7.72E+05 | 6.92E+05 |
| 1/20 | 6.37E+03 | -3.22E+04 | 3.69E+04 | -3.09E+04 | 3.65E+04 | -7.45E+05 | 6.03E+05 |
| 1/15 | 1.34E+04 | -3.12E+04 | 4.87E+04 | -2.87E+04 | 4.78E+04 | -6.31E+05 | 5.16E+05 |
| 1/10 | 2.57E+04 | -5.77E+03 | 6.70E+04 | -4.53E+03 | 6.56E+04 | -3.03E+05 | 3.98E+05 |

Table Q-1155. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 711. | -1.23E+04 | 1.26E+04 | -1.20E+04 | 1.24E+04 | -7.60E+05 | 6.99E+05 |
| 1/20 | 5.33E+03 | -3.43E+04 | 3.67E+04 | -3.29E+04 | 3.62E+04 | -7.65E+05 | 6.17E+05 |
| 1/15 | 1.18E+04 | -3.56E+04 | 4.80E+04 | -3.30E+04 | 4.72E+04 | -6.71E+05 | 5.31E+05 |
| 1/10 | 2.73E+04 | -6.83E+03 | 6.75E+04 | -5.59E+03 | 6.74E+04 | -3.29E+05 | 4.01E+05 |

Table Q-1156. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.24 | -1.27E+04 | 1.27E+04 | -1.26E+04 | 1.26E+04 | -7.56E+05 | 7.56E+05 |
| 1/20 | -3.72 | -3.81E+04 | 3.81E+04 | -3.78E+04 | 3.78E+04 | -7.56E+05 | 7.56E+05 |
| 1/15 | -4.95 | -5.09E+04 | 5.09E+04 | -5.04E+04 | 5.04E+04 | -7.56E+05 | 7.56E+05 |
| 1/10 | -7.44 | -7.63E+04 | 7.63E+04 | -7.56E+04 | 7.56E+04 | -7.56E+05 | 7.56E+05 |

Table Q–1157. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 79.7 | -1.29E+04 | 1.20E+04 | -1.28E+04 | 1.19E+04 | -7.70E+05 | 7.10E+05 |
| 1/20 | 1.56E+03 | -3.66E+04 | 3.18E+04 | -3.62E+04 | 3.17E+04 | -7.55E+05 | 6.02E+05 |
| 1/15 | 6.22E+03 | -3.73E+04 | 3.96E+04 | -3.66E+04 | 3.94E+04 | -6.42E+05 | 4.97E+05 |
| 1/10 | 1.75E+04 | -8.29E+03 | 5.05E+04 | -7.64E+03 | 5.03E+04 | -2.51E+05 | 3.28E+05 |

Table Q–1158. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 79.7 | -1.29E+04 | 1.20E+04 | -1.28E+04 | 1.19E+04 | -7.70E+05 | 7.10E+05 |
| 1/20 | 1.56E+03 | -3.66E+04 | 3.18E+04 | -3.62E+04 | 3.17E+04 | -7.55E+05 | 6.02E+05 |
| 1/15 | 6.22E+03 | -3.73E+04 | 3.96E+04 | -3.66E+04 | 3.94E+04 | -6.42E+05 | 4.97E+05 |
| 1/10 | 1.75E+04 | -8.29E+03 | 5.05E+04 | -7.64E+03 | 5.03E+04 | -2.51E+05 | 3.28E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1159. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1160. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -301. | -1.32E+04 | 1.23E+04 | -1.31E+04 | 1.22E+04 | -7.65E+05 | 7.50E+05 |
| 1/20 | 378. | -3.76E+04 | 3.25E+04 | -3.71E+04 | 3.21E+04 | -7.50E+05 | 6.34E+05 |
| 1/15 | 2.98E+03 | -4.11E+04 | 4.08E+04 | -4.06E+04 | 4.05E+04 | -6.54E+05 | 5.64E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

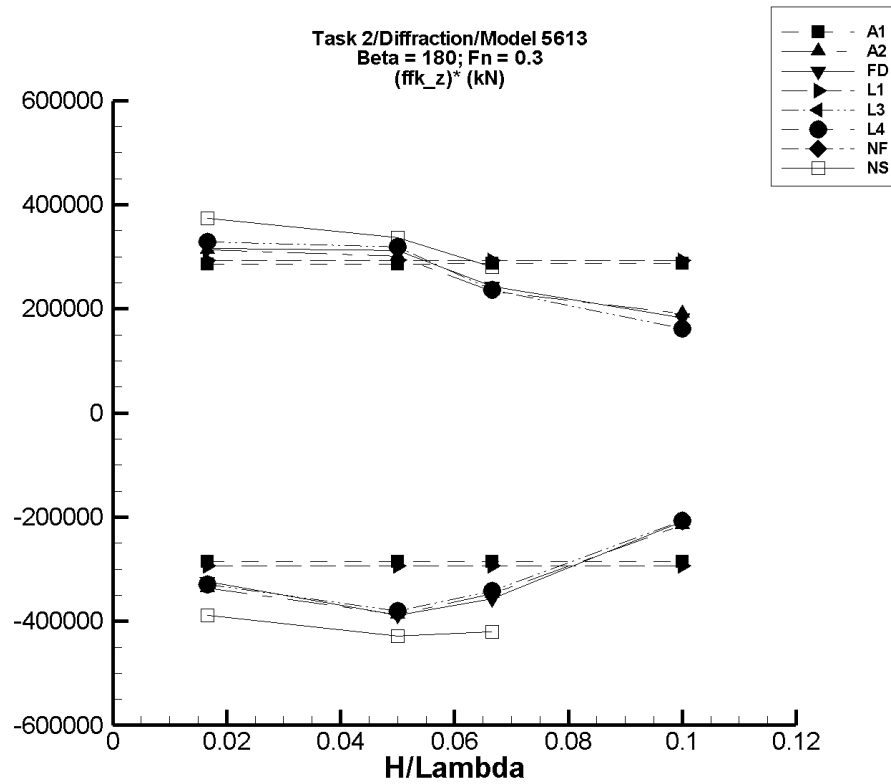


Figure Q-146. Minimum and maximum of filtered $(F_z^{\text{fk}} - \langle F_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1161. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.21 | -4.90E+03 | 4.91E+03 | -4.75E+03 | 4.76E+03 | -2.85E+05 | 2.85E+05 |
| 1/20 | -6.65 | -1.47E+04 | 1.48E+04 | -1.43E+04 | 1.43E+04 | -2.86E+05 | 2.86E+05 |
| 1/15 | -8.87 | -1.97E+04 | 1.97E+04 | -1.91E+04 | 1.91E+04 | -2.86E+05 | 2.87E+05 |
| 1/10 | -13.3 | -2.95E+04 | 2.96E+04 | -2.86E+04 | 2.86E+04 | -2.86E+05 | 2.87E+05 |

Table Q-1162. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 601. | -5.20E+03 | 5.98E+03 | -5.00E+03 | 5.83E+03 | -3.36E+05 | 3.14E+05 |
| 1/20 | 6.44E+03 | -1.34E+04 | 2.13E+04 | -1.29E+04 | 2.15E+04 | -3.87E+05 | 3.00E+05 |
| 1/15 | 1.34E+04 | -1.12E+04 | 2.94E+04 | -9.77E+03 | 2.90E+04 | -3.48E+05 | 2.34E+05 |
| 1/10 | 2.62E+04 | 3.06E+03 | 4.76E+04 | 4.69E+03 | 4.53E+04 | -2.15E+05 | 1.91E+05 |

Table Q-1163. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 698. | -4.87E+03 | 6.13E+03 | -4.70E+03 | 5.96E+03 | -3.24E+05 | 3.16E+05 |
| 1/20 | 5.48E+03 | -1.43E+04 | 2.15E+04 | -1.39E+04 | 2.11E+04 | -3.88E+05 | 3.12E+05 |
| 1/15 | 1.18E+04 | -1.31E+04 | 2.83E+04 | -1.19E+04 | 2.81E+04 | -3.57E+05 | 2.43E+05 |
| 1/10 | 2.74E+04 | 4.02E+03 | 4.63E+04 | 6.63E+03 | 4.57E+04 | -2.08E+05 | 1.83E+05 |

Table Q-1164. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|---------------------------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 7.89 | -4.93E+03 | 4.93E+03 | -4.88E+03 | 4.88E+03 | -2.93E+05 | 2.92E+05 |
| 1/20 | 23.7 | -1.48E+04 | 1.48E+04 | -1.46E+04 | 1.46E+04 | -2.93E+05 | 2.92E+05 |
| 1/15 | 31.6 | -1.97E+04 | 1.97E+04 | -1.95E+04 | 1.95E+04 | -2.93E+05 | 2.92E+05 |
| 1/10 | 47.3 | -2.96E+04 | 2.96E+04 | -2.93E+04 | 2.93E+04 | -2.93E+05 | 2.92E+05 |

Table Q-1165. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 84.5 | -5.47E+03 | 5.62E+03 | -5.41E+03 | 5.56E+03 | -3.30E+05 | 3.29E+05 |
| 1/20 | 1.70E+03 | -1.75E+04 | 1.78E+04 | -1.73E+04 | 1.76E+04 | -3.80E+05 | 3.18E+05 |
| 1/15 | 6.22E+03 | -1.68E+04 | 2.20E+04 | -1.65E+04 | 2.19E+04 | -3.42E+05 | 2.36E+05 |
| 1/10 | 1.74E+04 | -6.42E+03 | 3.39E+04 | -3.26E+03 | 3.37E+04 | -2.07E+05 | 1.62E+05 |

Table Q-1166. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------------|------------------------------------------------|---------------------|----------------------------------------------|---------------------|--------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ Mean (kN) | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 84.5 | -5.47E+03 | 5.62E+03 | -5.41E+03 | 5.56E+03 | -3.30E+05 | 3.29E+05 |
| 1/20 | 1.70E+03 | -1.75E+04 | 1.78E+04 | -1.73E+04 | 1.76E+04 | -3.80E+05 | 3.18E+05 |
| 1/15 | 6.22E+03 | -1.68E+04 | 2.20E+04 | -1.65E+04 | 2.19E+04 | -3.42E+05 | 2.36E+05 |
| 1/10 | 1.74E+04 | -6.42E+03 | 3.39E+04 | -3.26E+03 | 3.37E+04 | -2.07E+05 | 1.62E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1167. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1168. Minimum and Maximum of Variables F_z^{fk} and $(F_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|--------------|----------------------------|--------------|--------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{fk}} \rangle$ | Unfiltered F_z^{fk} | | Filtered F_z^{fk} | | Filtered $(F_z^{\text{fk}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -297. | -6.84E+03 | 6.00E+03 | -6.78E+03 | 5.94E+03 | -3.89E+05 | 3.74E+05 |
| 1/20 | 592. | -2.11E+04 | 1.77E+04 | -2.09E+04 | 1.74E+04 | -4.29E+05 | 3.36E+05 |
| 1/15 | 3.38E+03 | -2.49E+04 | 2.27E+04 | -2.47E+04 | 2.21E+04 | -4.21E+05 | 2.81E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

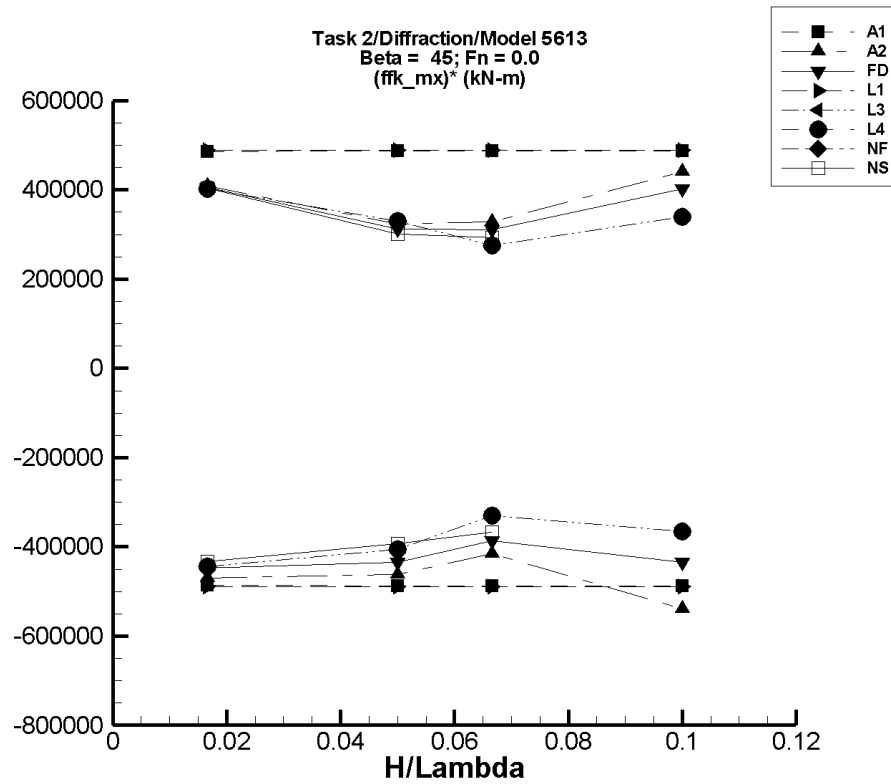


Figure Q-147. Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1169. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.42 | -8.18E+03 | 8.18E+03 | -8.10E+03 | 8.10E+03 | -4.86E+05 | 4.86E+05 |
| 1/20 | 7.29 | -2.46E+04 | 2.46E+04 | -2.44E+04 | 2.44E+04 | -4.87E+05 | 4.87E+05 |
| 1/15 | 9.73 | -3.28E+04 | 3.29E+04 | -3.25E+04 | 3.25E+04 | -4.88E+05 | 4.88E+05 |
| 1/10 | 14.6 | -4.93E+04 | 4.93E+04 | -4.88E+04 | 4.88E+04 | -4.88E+05 | 4.88E+05 |

Table Q-1170. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.00 | -8.04E+03 | 6.88E+03 | -7.84E+03 | 6.81E+03 | -4.70E+05 | 4.09E+05 |
| 1/20 | -57.9 | -2.49E+04 | 1.75E+04 | -2.31E+04 | 1.61E+04 | -4.61E+05 | 3.24E+05 |
| 1/15 | 9.71 | -2.82E+04 | 3.10E+04 | -2.76E+04 | 2.19E+04 | -4.15E+05 | 3.29E+05 |
| 1/10 | -1.84E+03 | -9.03E+04 | 4.29E+04 | -5.57E+04 | 4.22E+04 | -5.39E+05 | 4.41E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1171. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -26.0 | -7.58E+03 | 6.79E+03 | -7.50E+03 | 6.74E+03 | -4.48E+05 | 4.06E+05 |
| 1/20 | -78.1 | -2.21E+04 | 1.75E+04 | -2.18E+04 | 1.55E+04 | -4.35E+05 | 3.12E+05 |
| 1/15 | 67.1 | -2.61E+04 | 2.12E+04 | -2.57E+04 | 2.08E+04 | -3.87E+05 | 3.11E+05 |
| 1/10 | -467. | -4.60E+04 | 4.10E+04 | -4.39E+04 | 3.98E+04 | -4.35E+05 | 4.02E+05 |

Table Q-1172. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 5.05 | -8.18E+03 | 8.18E+03 | -8.15E+03 | 8.15E+03 | -4.89E+05 | 4.89E+05 |
| 1/20 | 15.1 | -2.45E+04 | 2.45E+04 | -2.45E+04 | 2.45E+04 | -4.89E+05 | 4.89E+05 |
| 1/15 | 20.2 | -3.27E+04 | 3.27E+04 | -3.26E+04 | 3.26E+04 | -4.89E+05 | 4.89E+05 |
| 1/10 | 30.3 | -4.91E+04 | 4.91E+04 | -4.89E+04 | 4.89E+04 | -4.89E+05 | 4.89E+05 |

Table Q-1173. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -0.329 | -7.43E+03 | 6.72E+03 | -7.40E+03 | 6.70E+03 | -4.44E+05 | 4.02E+05 |
| 1/20 | 163. | -2.02E+04 | 1.85E+04 | -2.01E+04 | 1.67E+04 | -4.06E+05 | 3.30E+05 |
| 1/15 | 55.7 | -2.22E+04 | 1.86E+04 | -2.20E+04 | 1.84E+04 | -3.31E+05 | 2.75E+05 |
| 1/10 | -296. | -3.78E+04 | 3.45E+04 | -3.69E+04 | 3.37E+04 | -3.66E+05 | 3.40E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1174. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -0.329 | -7.43E+03 | 6.72E+03 | -7.40E+03 | 6.70E+03 | -4.44E+05 | 4.02E+05 |
| 1/20 | 163. | -2.02E+04 | 1.85E+04 | -2.01E+04 | 1.67E+04 | -4.06E+05 | 3.30E+05 |
| 1/15 | 55.7 | -2.22E+04 | 1.86E+04 | -2.20E+04 | 1.84E+04 | -3.31E+05 | 2.75E+05 |
| 1/10 | -296. | -3.78E+04 | 3.45E+04 | -3.69E+04 | 3.37E+04 | -3.66E+05 | 3.40E+05 |

Table Q-1175. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1176. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 22.9 | -7.27E+03 | 6.79E+03 | -7.20E+03 | 6.75E+03 | -4.33E+05 | 4.04E+05 |
| 1/20 | -33.0 | -1.98E+04 | 1.67E+04 | -1.96E+04 | 1.51E+04 | -3.92E+05 | 3.02E+05 |
| 1/15 | -235. | -2.48E+04 | 2.20E+04 | -2.47E+04 | 1.93E+04 | -3.67E+05 | 2.93E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

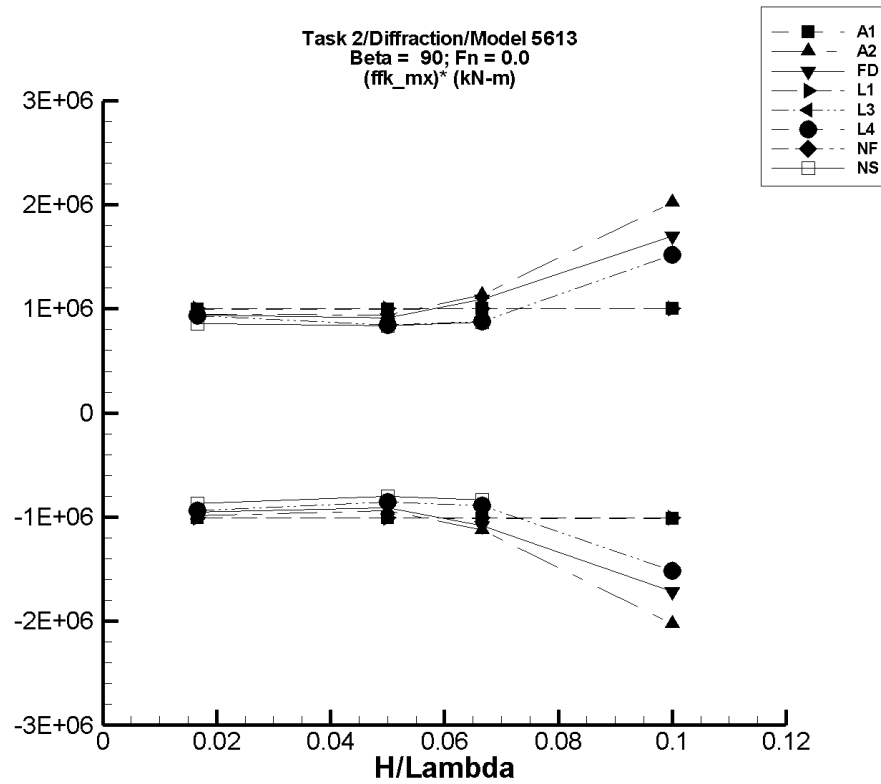


Figure Q-148. Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1177. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 13.5 | -1.68E+04 | 1.68E+04 | -1.68E+04 | 1.66E+04 | -1.01E+06 | 9.96E+05 |
| 1/20 | 40.5 | -5.05E+04 | 5.05E+04 | -5.05E+04 | 4.99E+04 | -1.01E+06 | 9.98E+05 |
| 1/15 | 54.1 | -6.74E+04 | 6.74E+04 | -6.74E+04 | 6.67E+04 | -1.01E+06 | 9.99E+05 |
| 1/10 | 81.2 | -1.01E+05 | 1.01E+05 | -1.01E+05 | 1.00E+05 | -1.01E+06 | 9.99E+05 |

Table Q-1178. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.89 | -1.68E+04 | 1.67E+04 | -1.64E+04 | 1.58E+04 | -9.84E+05 | 9.46E+05 |
| 1/20 | -109. | -5.05E+04 | 5.01E+04 | -4.70E+04 | 4.69E+04 | -9.38E+05 | 9.40E+05 |
| 1/15 | -170. | -7.82E+04 | 7.81E+04 | -7.52E+04 | 7.52E+04 | -1.12E+06 | 1.13E+06 |
| 1/10 | 291. | -2.33E+05 | 2.32E+05 | -2.03E+05 | 2.02E+05 | -2.03E+06 | 2.02E+06 |

Table Q-1179. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -41.9 | -1.59E+04 | 1.60E+04 | -1.59E+04 | 1.56E+04 | -9.53E+05 | 9.39E+05 |
| 1/20 | -64.6 | -4.64E+04 | 4.64E+04 | -4.56E+04 | 4.56E+04 | -9.11E+05 | 9.14E+05 |
| 1/15 | -150. | -7.45E+04 | 7.45E+04 | -7.26E+04 | 7.25E+04 | -1.09E+06 | 1.09E+06 |
| 1/10 | 872. | -1.94E+05 | 1.92E+05 | -1.71E+05 | 1.71E+05 | -1.72E+06 | 1.70E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1180. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------------------|-------------------------------------|------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{fk} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{fk} Max. (kN-m) | Filtered $(M_x^{fk})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.26 | -1.68E+04 | 1.68E+04 | -1.68E+04 | 1.67E+04 | -1.01E+06 | 1.00E+06 |
| 1/20 | 12.8 | -5.03E+04 | 5.03E+04 | -5.04E+04 | 5.01E+04 | -1.01E+06 | 1.00E+06 |
| 1/15 | 17.0 | -6.70E+04 | 6.70E+04 | -6.73E+04 | 6.68E+04 | -1.01E+06 | 1.00E+06 |
| 1/10 | 25.5 | -1.01E+05 | 1.01E+05 | -1.01E+05 | 1.00E+05 | -1.01E+06 | 1.00E+06 |

Table Q-1181. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------------------|-------------------------------------|------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{fk} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{fk} Max. (kN-m) | Filtered $(M_x^{fk})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -11.7 | -1.56E+04 | 1.56E+04 | -1.57E+04 | 1.55E+04 | -9.40E+05 | 9.30E+05 |
| 1/20 | 70.4 | -4.28E+04 | 4.28E+04 | -4.26E+04 | 4.22E+04 | -8.53E+05 | 8.43E+05 |
| 1/15 | 318. | -5.94E+04 | 5.94E+04 | -5.89E+04 | 5.89E+04 | -8.88E+05 | 8.79E+05 |
| 1/10 | -136. | -1.56E+05 | 1.56E+05 | -1.52E+05 | 1.52E+05 | -1.52E+06 | 1.52E+06 |

Table Q-1182. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|--------------------------------------------|-------------------------------------|------------------------------------------|-------------------------------------|---------------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{fk} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{fk} Max. (kN-m) | Filtered $(M_x^{fk})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -11.7 | -1.56E+04 | 1.56E+04 | -1.57E+04 | 1.55E+04 | -9.40E+05 | 9.30E+05 |
| 1/20 | 70.4 | -4.28E+04 | 4.28E+04 | -4.26E+04 | 4.22E+04 | -8.53E+05 | 8.43E+05 |
| 1/15 | 318. | -5.94E+04 | 5.94E+04 | -5.89E+04 | 5.89E+04 | -8.88E+05 | 8.79E+05 |
| 1/10 | -136. | -1.56E+05 | 1.56E+05 | -1.52E+05 | 1.52E+05 | -1.52E+06 | 1.52E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1183. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1184. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 55.5 | -1.44E+04 | 1.46E+04 | -1.44E+04 | 1.44E+04 | -8.70E+05 | 8.60E+05 |
| 1/20 | 56.8 | -4.07E+04 | 4.27E+04 | -4.01E+04 | 4.19E+04 | -8.02E+05 | 8.38E+05 |
| 1/15 | -161. | -5.67E+04 | 5.87E+04 | -5.60E+04 | 5.80E+04 | -8.37E+05 | 8.73E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

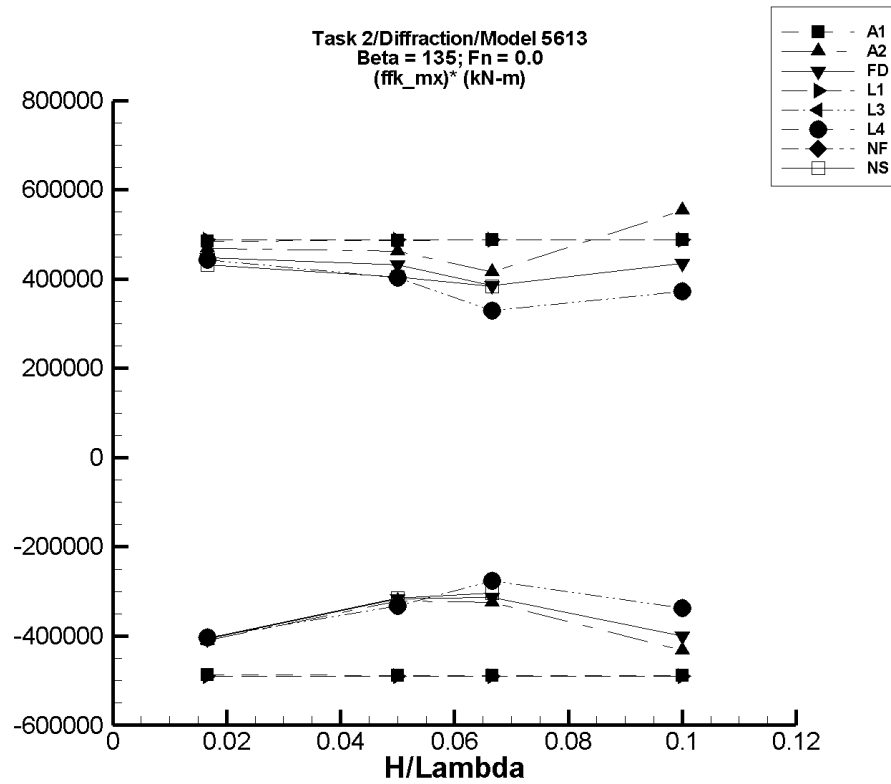


Figure Q-149. Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1185. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.35 | -8.18E+03 | 8.18E+03 | -8.11E+03 | 8.10E+03 | -4.87E+05 | 4.86E+05 |
| 1/20 | 25.1 | -2.46E+04 | 2.46E+04 | -2.44E+04 | 2.44E+04 | -4.88E+05 | 4.87E+05 |
| 1/15 | 33.5 | -3.29E+04 | 3.29E+04 | -3.26E+04 | 3.25E+04 | -4.89E+05 | 4.87E+05 |
| 1/10 | 50.3 | -4.93E+04 | 4.93E+04 | -4.88E+04 | 4.88E+04 | -4.89E+05 | 4.87E+05 |

Table Q-1186. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 31.6 | -6.88E+03 | 8.03E+03 | -6.80E+03 | 7.83E+03 | -4.10E+05 | 4.68E+05 |
| 1/20 | -64.5 | -1.98E+04 | 2.48E+04 | -1.61E+04 | 2.31E+04 | -3.21E+05 | 4.63E+05 |
| 1/15 | 162. | -2.22E+04 | 3.60E+04 | -2.15E+04 | 2.79E+04 | -3.25E+05 | 4.16E+05 |
| 1/10 | 637. | -4.35E+04 | 5.99E+04 | -4.26E+04 | 5.60E+04 | -4.33E+05 | 5.53E+05 |

Table Q-1187. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 23.9 | -6.79E+03 | 7.58E+03 | -6.74E+03 | 7.49E+03 | -4.06E+05 | 4.48E+05 |
| 1/20 | 188. | -1.76E+04 | 2.21E+04 | -1.56E+04 | 2.18E+04 | -3.17E+05 | 4.33E+05 |
| 1/15 | 85.4 | -2.12E+04 | 2.61E+04 | -2.08E+04 | 2.58E+04 | -3.14E+05 | 3.85E+05 |
| 1/10 | 166. | -4.11E+04 | 4.64E+04 | -3.98E+04 | 4.37E+04 | -4.00E+05 | 4.35E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1188. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.47 | -8.18E+03 | 8.18E+03 | -8.15E+03 | 8.15E+03 | -4.90E+05 | 4.89E+05 |
| 1/20 | 19.4 | -2.45E+04 | 2.45E+04 | -2.45E+04 | 2.45E+04 | -4.90E+05 | 4.89E+05 |
| 1/15 | 25.9 | -3.27E+04 | 3.27E+04 | -3.26E+04 | 3.26E+04 | -4.90E+05 | 4.89E+05 |
| 1/10 | 38.8 | -4.91E+04 | 4.91E+04 | -4.89E+04 | 4.89E+04 | -4.90E+05 | 4.89E+05 |

Table Q–1189. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.52 | -6.72E+03 | 7.43E+03 | -6.70E+03 | 7.40E+03 | -4.03E+05 | 4.44E+05 |
| 1/20 | -42.0 | -1.85E+04 | 2.02E+04 | -1.66E+04 | 2.01E+04 | -3.32E+05 | 4.04E+05 |
| 1/15 | 20.2 | -1.86E+04 | 2.22E+04 | -1.84E+04 | 2.20E+04 | -2.76E+05 | 3.30E+05 |
| 1/10 | 131. | -3.44E+04 | 3.78E+04 | -3.37E+04 | 3.74E+04 | -3.38E+05 | 3.73E+05 |

Table Q–1190. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.52 | -6.72E+03 | 7.43E+03 | -6.70E+03 | 7.40E+03 | -4.03E+05 | 4.44E+05 |
| 1/20 | -42.0 | -1.85E+04 | 2.02E+04 | -1.66E+04 | 2.01E+04 | -3.32E+05 | 4.04E+05 |
| 1/15 | 20.2 | -1.86E+04 | 2.22E+04 | -1.84E+04 | 2.20E+04 | -2.76E+05 | 3.30E+05 |
| 1/10 | 131. | -3.44E+04 | 3.78E+04 | -3.37E+04 | 3.74E+04 | -3.38E+05 | 3.73E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1191. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1192. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 38.5 | -6.76E+03 | 7.31E+03 | -6.71E+03 | 7.24E+03 | -4.05E+05 | 4.32E+05 |
| 1/20 | 24.3 | -1.80E+04 | 2.05E+04 | -1.57E+04 | 2.03E+04 | -3.15E+05 | 4.05E+05 |
| 1/15 | -239. | -2.20E+04 | 2.56E+04 | -2.05E+04 | 2.53E+04 | -3.04E+05 | 3.83E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

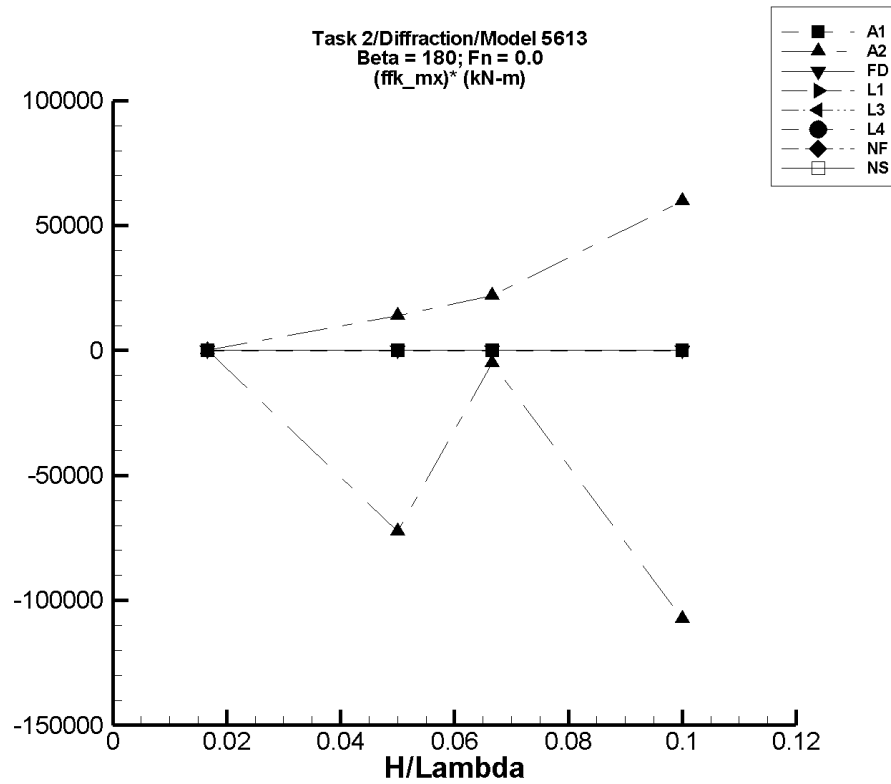


Figure Q-150. Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1193. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.07E-06 | -3.66E-02 | 3.66E-02 | -3.62E-02 | 3.62E-02 | -2.18 | 2.17 |
| 1/20 | 2.43E-05 | -0.110 | 0.110 | -0.109 | 0.109 | -2.18 | 2.18 |
| 1/15 | 3.24E-05 | -0.147 | 0.147 | -0.146 | 0.146 | -2.18 | 2.18 |
| 1/10 | 4.86E-05 | -0.221 | 0.221 | -0.218 | 0.218 | -2.18 | 2.18 |

Table Q-1194. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.07E-04 | -6.53E-03 | 6.53E-03 | -6.46E-03 | 6.28E-03 | -0.381 | 0.383 |
| 1/20 | -322. | -2.97E+04 | 1.95E+02 | -3.95E+03 | 377. | -7.25E+04 | 1.40E+04 |
| 1/15 | 30.9 | -2.36E+03 | 1.12E+04 | -313. | 1.50E+03 | -5.15E+03 | 2.20E+04 |
| 1/10 | -475. | -8.49E+04 | 3.80E+04 | -1.12E+04 | 5.50E+03 | -1.08E+05 | 5.97E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1195. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.67E-05 | -4.90E-03 | 3.72E-03 | -8.05E-04 | 7.17E-04 | -4.25E-02 | 4.88E-02 |
| 1/20 | 1.08E-02 | -1.76E-02 | 5.16E-02 | -2.58E-03 | 4.80E-02 | -0.268 | 0.743 |
| 1/15 | 1.12E-02 | -1.66E-02 | 5.03E-02 | -6.63E-03 | 3.23E-02 | -0.267 | 0.318 |
| 1/10 | 5.20E-03 | -0.100 | 9.24E-02 | -1.53E-02 | 2.13E-02 | -0.205 | 0.161 |

Table Q–1196. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1197. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1198. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1199. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1200. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.09E-05 | -3.42E-03 | 4.22E-03 | -1.34E-03 | 9.45E-04 | -7.80E-02 | 5.91E-02 |
| 1/20 | -1.05E-03 | -1.26E-02 | 1.18E-02 | -4.20E-03 | 1.86E-03 | -6.30E-02 | 5.83E-02 |
| 1/15 | -2.07E-04 | -2.09E-02 | 1.92E-02 | -5.10E-03 | 4.26E-03 | -7.33E-02 | 6.70E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

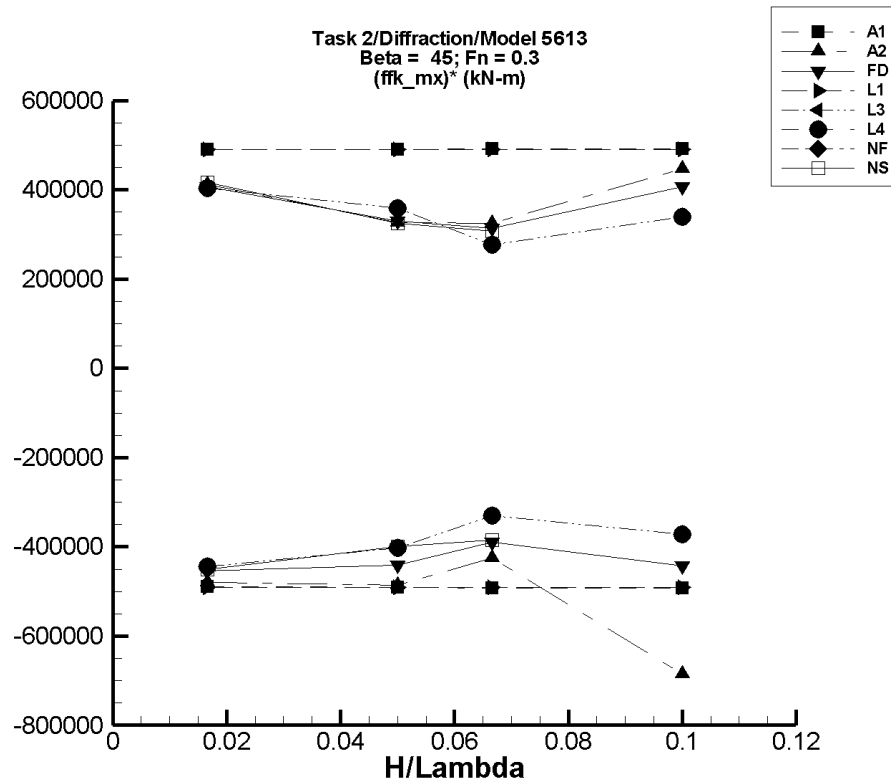


Figure Q-151. Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1201. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -0.531 | -8.18E+03 | 8.18E+03 | -8.17E+03 | 8.17E+03 | -4.90E+05 | 4.90E+05 |
| 1/20 | -1.60 | -2.46E+04 | 2.46E+04 | -2.46E+04 | 2.46E+04 | -4.91E+05 | 4.91E+05 |
| 1/15 | -2.14 | -3.29E+04 | 3.29E+04 | -3.28E+04 | 3.28E+04 | -4.92E+05 | 4.92E+05 |
| 1/10 | -3.21 | -4.93E+04 | 4.93E+04 | -4.92E+04 | 4.92E+04 | -4.92E+05 | 4.92E+05 |

Table Q–1202. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.44 | -8.04E+03 | 6.88E+03 | -7.98E+03 | 6.86E+03 | -4.79E+05 | 4.12E+05 |
| 1/20 | -216. | -2.49E+04 | 1.78E+04 | -2.45E+04 | 1.61E+04 | -4.86E+05 | 3.26E+05 |
| 1/15 | -55.1 | -3.34E+04 | 2.18E+04 | -2.84E+04 | 2.16E+04 | -4.25E+05 | 3.26E+05 |
| 1/10 | -1.16E+03 | -1.46E+05 | 4.33E+04 | -6.97E+04 | 4.36E+04 | -6.86E+05 | 4.48E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1203. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.99 | -7.58E+03 | 6.79E+03 | -7.56E+03 | 6.77E+03 | -4.53E+05 | 4.07E+05 |
| 1/20 | 3.93 | -2.21E+04 | 1.75E+04 | -2.20E+04 | 1.65E+04 | -4.41E+05 | 3.29E+05 |
| 1/15 | -11.1 | -2.61E+04 | 2.12E+04 | -2.60E+04 | 2.10E+04 | -3.90E+05 | 3.14E+05 |
| 1/10 | -449. | -4.63E+04 | 4.10E+04 | -4.46E+04 | 4.03E+04 | -4.42E+05 | 4.08E+05 |

Table Q-1204. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -0.169 | -8.18E+03 | 8.18E+03 | -8.18E+03 | 8.18E+03 | -4.91E+05 | 4.91E+05 |
| 1/20 | -0.511 | -2.45E+04 | 2.45E+04 | -2.45E+04 | 2.45E+04 | -4.91E+05 | 4.91E+05 |
| 1/15 | -0.672 | -3.27E+04 | 3.27E+04 | -3.27E+04 | 3.27E+04 | -4.91E+05 | 4.91E+05 |
| 1/10 | -1.02 | -4.91E+04 | 4.91E+04 | -4.91E+04 | 4.91E+04 | -4.91E+05 | 4.91E+05 |

Table Q-1205. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.92 | -7.43E+03 | 6.72E+03 | -7.42E+03 | 6.72E+03 | -4.45E+05 | 4.03E+05 |
| 1/20 | -66.6 | -2.02E+04 | 1.85E+04 | -2.02E+04 | 1.78E+04 | -4.03E+05 | 3.58E+05 |
| 1/15 | -19.5 | -2.22E+04 | 1.86E+04 | -2.21E+04 | 1.85E+04 | -3.31E+05 | 2.78E+05 |
| 1/10 | -168. | -3.78E+04 | 3.45E+04 | -3.73E+04 | 3.39E+04 | -3.71E+05 | 3.40E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1206. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.92 | -7.43E+03 | 6.72E+03 | -7.42E+03 | 6.72E+03 | -4.45E+05 | 4.03E+05 |
| 1/20 | -66.6 | -2.02E+04 | 1.85E+04 | -2.02E+04 | 1.78E+04 | -4.03E+05 | 3.58E+05 |
| 1/15 | -19.5 | -2.22E+04 | 1.86E+04 | -2.21E+04 | 1.85E+04 | -3.31E+05 | 2.78E+05 |
| 1/10 | -168. | -3.78E+04 | 3.45E+04 | -3.73E+04 | 3.39E+04 | -3.71E+05 | 3.40E+05 |

Table Q-1207. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1208. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.60 | -7.59E+03 | 7.00E+03 | -7.52E+03 | 6.94E+03 | -4.51E+05 | 4.16E+05 |
| 1/20 | -134. | -2.03E+04 | 1.65E+04 | -2.01E+04 | 1.61E+04 | -4.00E+05 | 3.25E+05 |
| 1/15 | -436. | -2.62E+04 | 2.12E+04 | -2.61E+04 | 2.01E+04 | -3.85E+05 | 3.08E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

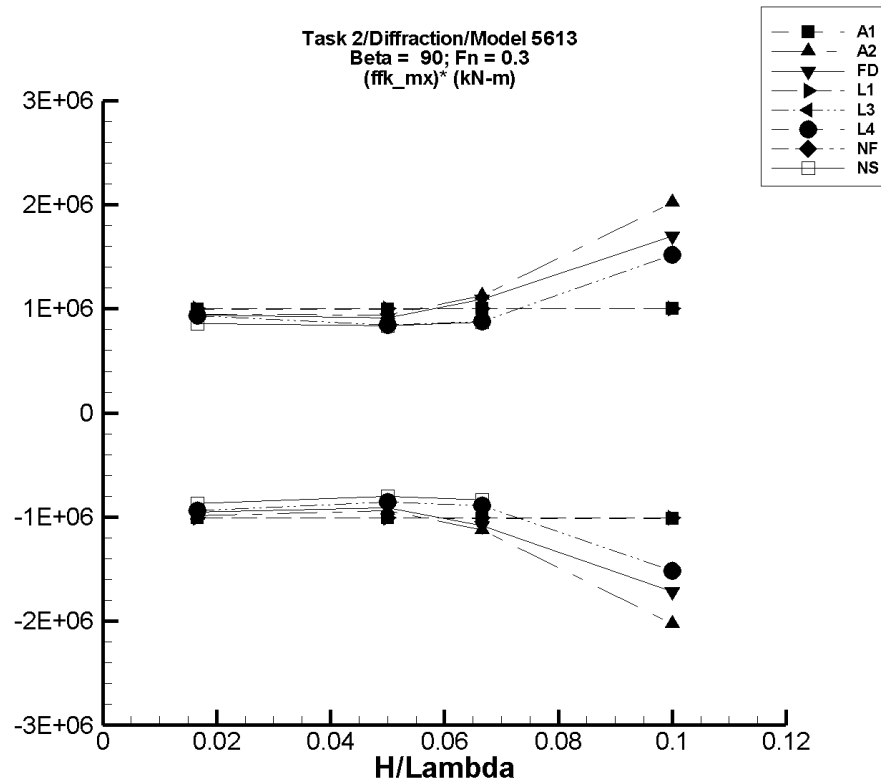


Figure Q-152. Minimum and maximum of filtered $(M_x^{\text{fk}} - \langle M_x^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1209. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 13.5 | -1.68E+04 | 1.68E+04 | -1.68E+04 | 1.66E+04 | -1.01E+06 | 9.96E+05 |
| 1/20 | 40.5 | -5.05E+04 | 5.05E+04 | -5.05E+04 | 4.99E+04 | -1.01E+06 | 9.98E+05 |
| 1/15 | 54.1 | -6.74E+04 | 6.74E+04 | -6.74E+04 | 6.67E+04 | -1.01E+06 | 9.99E+05 |
| 1/10 | 81.2 | -1.01E+05 | 1.01E+05 | -1.01E+05 | 1.00E+05 | -1.01E+06 | 9.99E+05 |

Table Q-1210. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.89 | -1.68E+04 | 1.67E+04 | -1.64E+04 | 1.58E+04 | -9.84E+05 | 9.46E+05 |
| 1/20 | -109. | -5.05E+04 | 5.01E+04 | -4.70E+04 | 4.69E+04 | -9.38E+05 | 9.40E+05 |
| 1/15 | -22.7 | -7.82E+04 | 7.81E+04 | -7.52E+04 | 7.52E+04 | -1.13E+06 | 1.13E+06 |
| 1/10 | 291. | -2.33E+05 | 2.32E+05 | -2.03E+05 | 2.02E+05 | -2.03E+06 | 2.02E+06 |

Table Q-1211. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -41.9 | -1.59E+04 | 1.60E+04 | -1.59E+04 | 1.56E+04 | -9.53E+05 | 9.39E+05 |
| 1/20 | -64.6 | -4.64E+04 | 4.64E+04 | -4.56E+04 | 4.56E+04 | -9.11E+05 | 9.14E+05 |
| 1/15 | -150. | -7.45E+04 | 7.45E+04 | -7.26E+04 | 7.25E+04 | -1.09E+06 | 1.09E+06 |
| 1/10 | 872. | -1.94E+05 | 1.92E+05 | -1.71E+05 | 1.71E+05 | -1.72E+06 | 1.70E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1212. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered $(M_x^{fk})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | 4.26 | -1.68E+04 | 1.68E+04 | -1.68E+04 | 1.67E+04 | -1.01E+06 | 1.00E+06 |
| 1/20 | 12.8 | -5.03E+04 | 5.03E+04 | -5.04E+04 | 5.01E+04 | -1.01E+06 | 1.00E+06 |
| 1/15 | 17.0 | -6.70E+04 | 6.70E+04 | -6.73E+04 | 6.68E+04 | -1.01E+06 | 1.00E+06 |
| 1/10 | 25.6 | -1.01E+05 | 1.01E+05 | -1.01E+05 | 1.00E+05 | -1.01E+06 | 1.00E+06 |

Table Q-1213. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered $(M_x^{fk})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | -11.7 | -1.56E+04 | 1.56E+04 | -1.57E+04 | 1.55E+04 | -9.40E+05 | 9.30E+05 |
| 1/20 | 70.4 | -4.28E+04 | 4.28E+04 | -4.26E+04 | 4.22E+04 | -8.53E+05 | 8.43E+05 |
| 1/15 | 318. | -5.94E+04 | 5.94E+04 | -5.89E+04 | 5.89E+04 | -8.88E+05 | 8.79E+05 |
| 1/10 | -136. | -1.56E+05 | 1.56E+05 | -1.52E+05 | 1.52E+05 | -1.52E+06 | 1.52E+06 |

Table Q-1214. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered $(M_x^{fk})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | -11.7 | -1.56E+04 | 1.56E+04 | -1.57E+04 | 1.55E+04 | -9.40E+05 | 9.30E+05 |
| 1/20 | 70.4 | -4.28E+04 | 4.28E+04 | -4.26E+04 | 4.22E+04 | -8.53E+05 | 8.43E+05 |
| 1/15 | 318. | -5.94E+04 | 5.94E+04 | -5.89E+04 | 5.89E+04 | -8.88E+05 | 8.79E+05 |
| 1/10 | -136. | -1.56E+05 | 1.56E+05 | -1.52E+05 | 1.52E+05 | -1.52E+06 | 1.52E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1215. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1216. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 55.5 | -1.44E+04 | 1.46E+04 | -1.44E+04 | 1.44E+04 | -8.70E+05 | 8.60E+05 |
| 1/20 | 56.8 | -4.07E+04 | 4.27E+04 | -4.01E+04 | 4.19E+04 | -8.02E+05 | 8.38E+05 |
| 1/15 | -161. | -5.67E+04 | 5.87E+04 | -5.60E+04 | 5.80E+04 | -8.37E+05 | 8.73E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

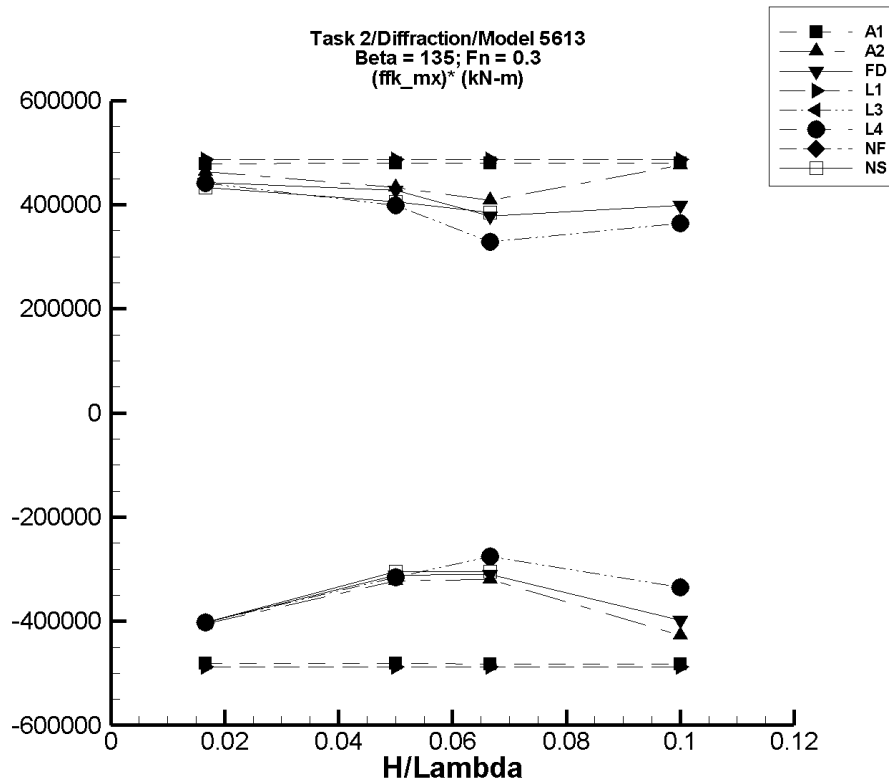


Figure Q-153. Minimum and maximum of filtered $(M_x^{fk} - \langle M_x^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1217. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 4.47 | -8.18E+03 | 8.18E+03 | -8.00E+03 | 7.98E+03 | -4.80E+05 | 4.79E+05 |
| 1/20 | 13.4 | -2.46E+04 | 2.46E+04 | -2.41E+04 | 2.40E+04 | -4.82E+05 | 4.80E+05 |
| 1/15 | 17.9 | -3.29E+04 | 3.28E+04 | -3.21E+04 | 3.21E+04 | -4.82E+05 | 4.81E+05 |
| 1/10 | 26.9 | -4.93E+04 | 4.93E+04 | -4.82E+04 | 4.81E+04 | -4.82E+05 | 4.81E+05 |

Table Q-1218. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 13.5 | -6.88E+03 | 8.02E+03 | -6.75E+03 | 7.73E+03 | -4.06E+05 | 4.63E+05 |
| 1/20 | 27.3 | -1.66E+04 | 2.47E+04 | -1.61E+04 | 2.17E+04 | -3.23E+05 | 4.34E+05 |
| 1/15 | -78.9 | -2.22E+04 | 2.82E+04 | -2.14E+04 | 2.72E+04 | -3.20E+05 | 4.09E+05 |
| 1/10 | 278. | -4.36E+04 | 6.04E+04 | -4.24E+04 | 4.78E+04 | -4.27E+05 | 4.75E+05 |

Table Q-1219. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 16.5 | -6.79E+03 | 7.58E+03 | -6.70E+03 | 7.39E+03 | -4.03E+05 | 4.42E+05 |
| 1/20 | 0.895 | -1.69E+04 | 2.21E+04 | -1.56E+04 | 2.14E+04 | -3.11E+05 | 4.28E+05 |
| 1/15 | -70.9 | -2.11E+04 | 2.61E+04 | -2.07E+04 | 2.52E+04 | -3.10E+05 | 3.79E+05 |
| 1/10 | 220. | -4.11E+04 | 4.64E+04 | -3.96E+04 | 4.00E+04 | -3.98E+05 | 3.98E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1220. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered $(M_x^{fk})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | 0.871 | -8.18E+03 | 8.18E+03 | -8.12E+03 | 8.11E+03 | -4.87E+05 | 4.87E+05 |
| 1/20 | 2.62 | -2.45E+04 | 2.45E+04 | -2.44E+04 | 2.43E+04 | -4.87E+05 | 4.87E+05 |
| 1/15 | 3.48 | -3.27E+04 | 3.27E+04 | -3.25E+04 | 3.25E+04 | -4.87E+05 | 4.87E+05 |
| 1/10 | 5.23 | -4.91E+04 | 4.91E+04 | -4.87E+04 | 4.87E+04 | -4.87E+05 | 4.87E+05 |

Table Q-1221. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered $(M_x^{fk})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | 7.31 | -6.72E+03 | 7.43E+03 | -6.70E+03 | 7.37E+03 | -4.02E+05 | 4.42E+05 |
| 1/20 | 49.4 | -1.83E+04 | 2.02E+04 | -1.57E+04 | 2.00E+04 | -3.15E+05 | 3.99E+05 |
| 1/15 | -21.6 | -1.86E+04 | 2.21E+04 | -1.84E+04 | 2.19E+04 | -2.76E+05 | 3.28E+05 |
| 1/10 | -45.6 | -3.44E+04 | 3.78E+04 | -3.36E+04 | 3.64E+04 | -3.36E+05 | 3.65E+05 |

Table Q-1222. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------|---------------------------------------------------------------|----------|-------------------------------------------------------------|----------|-----------------------------------------------------------------|----------|
| (H/λ) | $\langle M_x^{fk} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered M_x^{fk} Min. Max. (kN-m) (kN-m) | | Filtered $(M_x^{fk})^*$ Min. Max. (kN-m) (kN-m) | |
| 1/60 | 7.31 | -6.72E+03 | 7.43E+03 | -6.70E+03 | 7.37E+03 | -4.02E+05 | 4.42E+05 |
| 1/20 | 49.4 | -1.83E+04 | 2.02E+04 | -1.57E+04 | 2.00E+04 | -3.15E+05 | 3.99E+05 |
| 1/15 | -21.6 | -1.86E+04 | 2.21E+04 | -1.84E+04 | 2.19E+04 | -2.76E+05 | 3.28E+05 |
| 1/10 | -45.6 | -3.44E+04 | 3.78E+04 | -3.36E+04 | 3.64E+04 | -3.36E+05 | 3.65E+05 |

Table Q–1223. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1224. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 53.1 | -6.70E+03 | 7.33E+03 | -6.66E+03 | 7.26E+03 | -4.03E+05 | 4.33E+05 |
| 1/20 | 159. | -1.76E+04 | 2.06E+04 | -1.51E+04 | 2.04E+04 | -3.04E+05 | 4.06E+05 |
| 1/15 | -122. | -2.19E+04 | 2.58E+04 | -2.04E+04 | 2.55E+04 | -3.04E+05 | 3.85E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

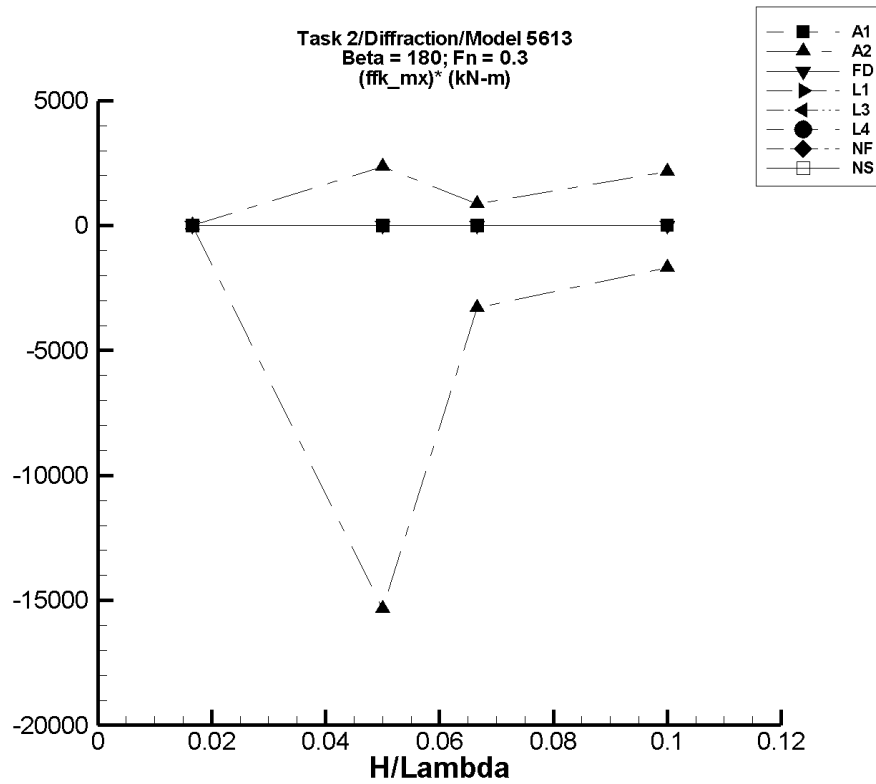


Figure Q-154. Minimum and maximum of filtered $(M_x^{fk} - \langle M_x^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1225. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.24E-05 | -3.66E-02 | 3.66E-02 | -3.55E-02 | 3.55E-02 | -2.13 | 2.13 |
| 1/20 | 6.75E-05 | -0.110 | 0.110 | -0.107 | 0.107 | -2.14 | 2.13 |
| 1/15 | 9.01E-05 | -0.147 | 0.147 | -0.143 | 0.142 | -2.14 | 2.14 |
| 1/10 | 1.35E-04 | -0.221 | 0.221 | -0.214 | 0.214 | -2.14 | 2.14 |

Table Q–1226. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.09E-04 | -6.53E-03 | 6.47E-03 | -6.33E-03 | 6.19E-03 | -0.373 | 0.378 |
| 1/20 | -47.7 | -6.11E+03 | 1.95E-02 | -814. | 69.9 | -1.53E+04 | 2.35E+03 |
| 1/15 | -36.6 | -1.92E+03 | 2.59E-02 | -256. | 21.8 | -3.29E+03 | 876. |
| 1/10 | 6.36 | -1.11E+03 | 1.59E+03 | -161. | 221. | -1.67E+03 | 2.15E+03 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1227. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.80E-04 | -1.62E-02 | 2.50E-02 | -6.88E-03 | 1.40E-02 | -0.424 | 0.829 |
| 1/20 | -4.26E-04 | -3.27E-02 | 3.02E-02 | -8.18E-03 | 7.12E-03 | -0.155 | 0.151 |
| 1/15 | 2.40E-03 | -4.71E-02 | 8.35E-02 | -7.98E-03 | 1.93E-02 | -0.156 | 0.254 |
| 1/10 | -6.86E-03 | -0.271 | 0.184 | -0.129 | 6.84E-02 | -1.22 | 0.753 |

Table Q-1228. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1229. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1230. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1231. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1232. Minimum and Maximum of Variables M_x^{fk} and $(M_x^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_x^{fk} \rangle$ | Unfiltered M_x^{fk} | | Filtered M_x^{fk} | | Filtered $(M_x^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.45E-05 | -5.89E-03 | 4.74E-03 | -1.37E-03 | 8.88E-04 | -7.80E-02 | 5.78E-02 |
| 1/20 | -6.83E-04 | -1.32E-02 | 1.82E-02 | -4.04E-03 | 3.69E-03 | -6.71E-02 | 8.76E-02 |
| 1/15 | 6.63E-05 | -3.91E-02 | 3.39E-02 | -1.54E-02 | 5.80E-03 | -0.231 | 8.60E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

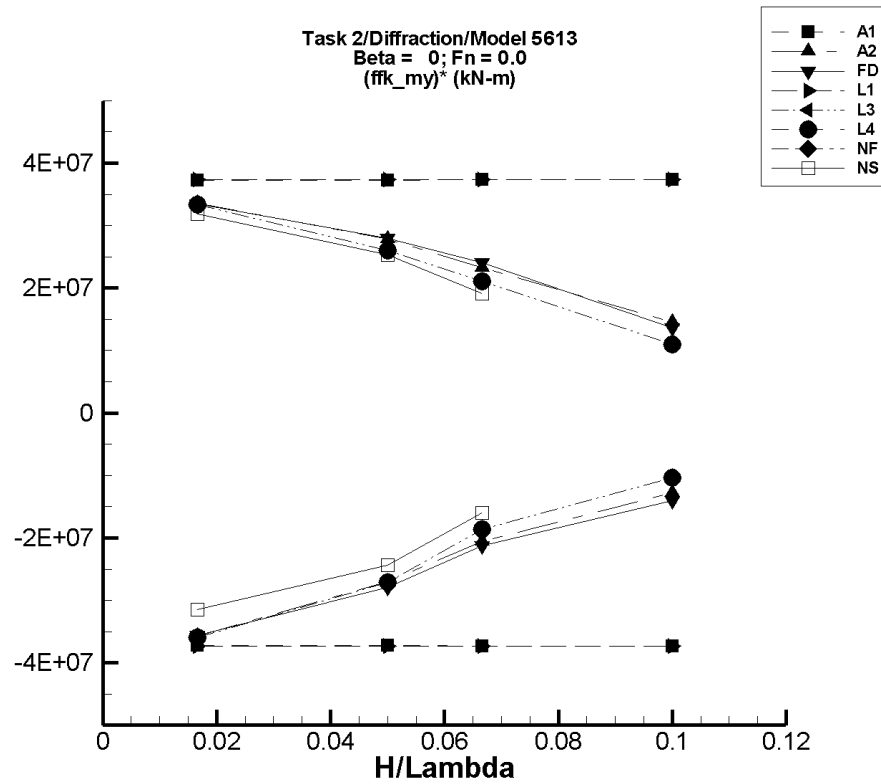


Figure Q-155. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1233. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -382. | -6.26E+05 | 6.26E+05 | -6.20E+05 | 6.20E+05 | -3.72E+07 | 3.72E+07 |
| 1/20 | -1.15E+03 | -1.88E+06 | 1.88E+06 | -1.86E+06 | 1.86E+06 | -3.73E+07 | 3.73E+07 |
| 1/15 | -1.53E+03 | -2.51E+06 | 2.51E+06 | -2.49E+06 | 2.49E+06 | -3.73E+07 | 3.74E+07 |
| 1/10 | -2.30E+03 | -3.77E+06 | 3.77E+06 | -3.73E+06 | 3.73E+06 | -3.73E+07 | 3.74E+07 |

Table Q-1234. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.62E+04 | -5.72E+05 | 6.00E+05 | -5.60E+05 | 5.95E+05 | -3.58E+07 | 3.35E+07 |
| 1/20 | 2.55E+05 | -1.18E+06 | 1.66E+06 | -1.10E+06 | 1.65E+06 | -2.70E+07 | 2.79E+07 |
| 1/15 | 3.91E+05 | -1.00E+06 | 1.96E+06 | -9.80E+05 | 1.94E+06 | -2.06E+07 | 2.32E+07 |
| 1/10 | 1.56E+05 | -1.17E+06 | 1.68E+06 | -1.12E+06 | 1.61E+06 | -1.28E+07 | 1.45E+07 |

Table Q-1235. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.81E+04 | -5.67E+05 | 6.02E+05 | -5.55E+05 | 5.95E+05 | -3.56E+07 | 3.34E+07 |
| 1/20 | 2.51E+05 | -1.23E+06 | 1.67E+06 | -1.14E+06 | 1.65E+06 | -2.79E+07 | 2.79E+07 |
| 1/15 | 3.74E+05 | -1.05E+06 | 2.00E+06 | -1.04E+06 | 1.98E+06 | -2.12E+07 | 2.41E+07 |
| 1/10 | 2.30E+05 | -1.19E+06 | 1.64E+06 | -1.18E+06 | 1.59E+06 | -1.41E+07 | 1.36E+07 |

Table Q-1236. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -604. | -6.25E+05 | 6.25E+05 | -6.22E+05 | 6.22E+05 | -3.73E+07 | 3.74E+07 |
| 1/20 | -1.81E+03 | -1.87E+06 | 1.87E+06 | -1.87E+06 | 1.87E+06 | -3.73E+07 | 3.74E+07 |
| 1/15 | -2.42E+03 | -2.50E+06 | 2.50E+06 | -2.49E+06 | 2.49E+06 | -3.73E+07 | 3.74E+07 |
| 1/10 | -3.62E+03 | -3.75E+06 | 3.75E+06 | -3.73E+06 | 3.73E+06 | -3.73E+07 | 3.74E+07 |

Table Q-1237. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.22E+04 | -5.72E+05 | 5.90E+05 | -5.67E+05 | 5.87E+05 | -3.60E+07 | 3.33E+07 |
| 1/20 | 2.20E+05 | -1.17E+06 | 1.53E+06 | -1.14E+06 | 1.52E+06 | -2.71E+07 | 2.60E+07 |
| 1/15 | 3.22E+05 | -9.20E+05 | 1.73E+06 | -9.15E+05 | 1.73E+06 | -1.86E+07 | 2.10E+07 |
| 1/10 | 1.27E+05 | -9.14E+05 | 1.30E+06 | -9.05E+05 | 1.22E+06 | -1.03E+07 | 1.09E+07 |

Table Q-1238. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.22E+04 | -5.72E+05 | 5.90E+05 | -5.67E+05 | 5.87E+05 | -3.60E+07 | 3.33E+07 |
| 1/20 | 2.20E+05 | -1.17E+06 | 1.53E+06 | -1.14E+06 | 1.52E+06 | -2.71E+07 | 2.60E+07 |
| 1/15 | 3.22E+05 | -9.20E+05 | 1.73E+06 | -9.15E+05 | 1.73E+06 | -1.86E+07 | 2.10E+07 |
| 1/10 | 1.27E+05 | -9.14E+05 | 1.30E+06 | -9.05E+05 | 1.22E+06 | -1.03E+07 | 1.09E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1239. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1240. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 831. | -5.30E+05 | 5.33E+05 | -5.24E+05 | 5.32E+05 | -3.15E+07 | 3.19E+07 |
| 1/20 | 1.12E+05 | -1.18E+06 | 1.39E+06 | -1.11E+06 | 1.38E+06 | -2.44E+07 | 2.53E+07 |
| 1/15 | 1.11E+05 | -9.66E+05 | 1.38E+06 | -9.54E+05 | 1.38E+06 | -1.60E+07 | 1.91E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

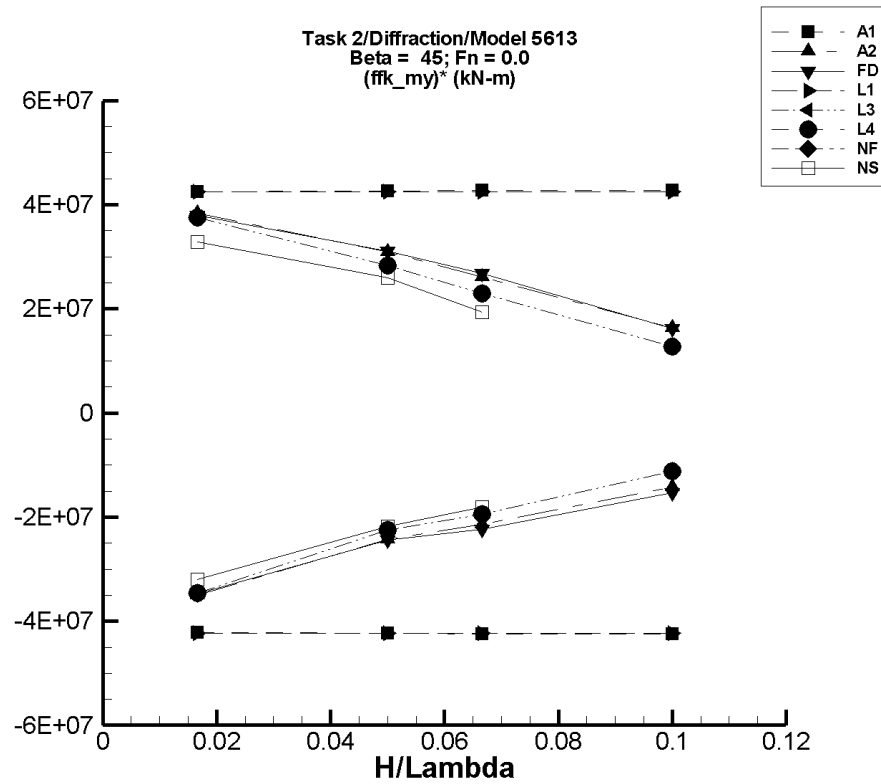


Figure Q-156. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1241. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -550. | -7.11E+05 | 7.11E+05 | -7.04E+05 | 7.09E+05 | -4.22E+07 | 4.25E+07 |
| 1/20 | -1.65E+03 | -2.14E+06 | 2.14E+06 | -2.12E+06 | 2.13E+06 | -4.23E+07 | 4.27E+07 |
| 1/15 | -2.21E+03 | -2.86E+06 | 2.86E+06 | -2.83E+06 | 2.85E+06 | -4.24E+07 | 4.27E+07 |
| 1/10 | -3.31E+03 | -4.29E+06 | 4.28E+06 | -4.24E+06 | 4.27E+06 | -4.24E+07 | 4.27E+07 |

Table Q-1242. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.66E+04 | -5.52E+05 | 6.76E+05 | -5.48E+05 | 6.77E+05 | -3.51E+07 | 3.84E+07 |
| 1/20 | 2.53E+05 | -9.76E+05 | 1.80E+06 | -9.63E+05 | 1.80E+06 | -2.43E+07 | 3.09E+07 |
| 1/15 | 3.92E+05 | -1.06E+06 | 2.15E+06 | -1.03E+06 | 2.13E+06 | -2.14E+07 | 2.60E+07 |
| 1/10 | 1.72E+05 | -1.27E+06 | 1.89E+06 | -1.25E+06 | 1.81E+06 | -1.43E+07 | 1.63E+07 |

Table Q-1243. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.83E+04 | -5.44E+05 | 6.74E+05 | -5.40E+05 | 6.70E+05 | -3.47E+07 | 3.79E+07 |
| 1/20 | 2.44E+05 | -9.89E+05 | 1.81E+06 | -9.79E+05 | 1.80E+06 | -2.45E+07 | 3.11E+07 |
| 1/15 | 3.70E+05 | -1.13E+06 | 2.18E+06 | -1.12E+06 | 2.16E+06 | -2.23E+07 | 2.68E+07 |
| 1/10 | 2.06E+05 | -1.34E+06 | 1.89E+06 | -1.32E+06 | 1.82E+06 | -1.53E+07 | 1.61E+07 |

Table Q-1244. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -278. | -7.09E+05 | 7.09E+05 | -7.06E+05 | 7.08E+05 | -4.23E+07 | 4.25E+07 |
| 1/20 | -833. | -2.13E+06 | 2.13E+06 | -2.12E+06 | 2.12E+06 | -4.23E+07 | 4.25E+07 |
| 1/15 | -1.11E+03 | -2.83E+06 | 2.83E+06 | -2.82E+06 | 2.83E+06 | -4.23E+07 | 4.25E+07 |
| 1/10 | -1.67E+03 | -4.25E+06 | 4.25E+06 | -4.24E+06 | 4.25E+06 | -4.23E+07 | 4.25E+07 |

Table Q-1245. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.24E+04 | -5.47E+05 | 6.59E+05 | -5.45E+05 | 6.58E+05 | -3.47E+07 | 3.75E+07 |
| 1/20 | 2.15E+05 | -9.09E+05 | 1.63E+06 | -9.07E+05 | 1.63E+06 | -2.24E+07 | 2.84E+07 |
| 1/15 | 3.25E+05 | -9.76E+05 | 1.86E+06 | -9.73E+05 | 1.85E+06 | -1.95E+07 | 2.29E+07 |
| 1/10 | 1.13E+05 | -1.02E+06 | 1.45E+06 | -1.01E+06 | 1.39E+06 | -1.12E+07 | 1.28E+07 |

Table Q-1246. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.24E+04 | -5.47E+05 | 6.59E+05 | -5.45E+05 | 6.58E+05 | -3.47E+07 | 3.75E+07 |
| 1/20 | 2.15E+05 | -9.09E+05 | 1.63E+06 | -9.07E+05 | 1.63E+06 | -2.24E+07 | 2.84E+07 |
| 1/15 | 3.25E+05 | -9.76E+05 | 1.86E+06 | -9.73E+05 | 1.85E+06 | -1.95E+07 | 2.29E+07 |
| 1/10 | 1.13E+05 | -1.02E+06 | 1.45E+06 | -1.01E+06 | 1.39E+06 | -1.12E+07 | 1.28E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1247. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1248. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 547. | -5.37E+05 | 5.47E+05 | -5.32E+05 | 5.49E+05 | -3.19E+07 | 3.29E+07 |
| 1/20 | 1.07E+05 | -1.00E+06 | 1.40E+06 | -9.84E+05 | 1.41E+06 | -2.18E+07 | 2.60E+07 |
| 1/15 | 1.09E+05 | -1.12E+06 | 1.41E+06 | -1.10E+06 | 1.40E+06 | -1.81E+07 | 1.93E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

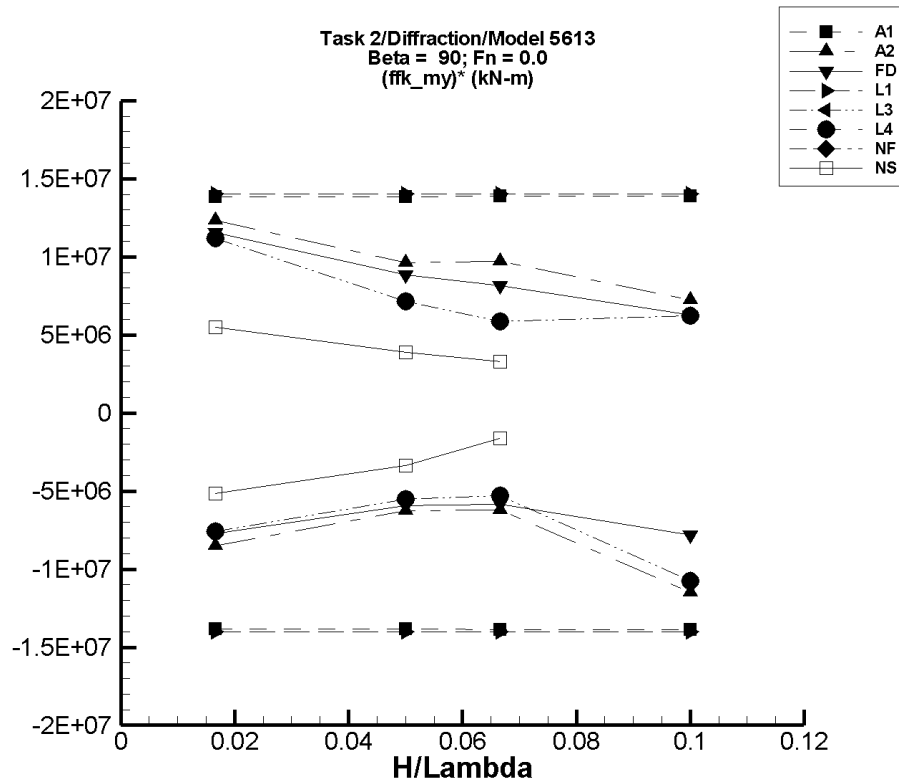


Figure Q-157. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1249. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -147. | -2.33E+05 | 2.33E+05 | -2.30E+05 | 2.30E+05 | -1.38E+07 | 1.38E+07 |
| 1/20 | -442. | -7.00E+05 | 7.00E+05 | -6.93E+05 | 6.92E+05 | -1.38E+07 | 1.39E+07 |
| 1/15 | -591. | -9.34E+05 | 9.34E+05 | -9.25E+05 | 9.25E+05 | -1.39E+07 | 1.39E+07 |
| 1/10 | -886. | -1.40E+06 | 1.40E+06 | -1.39E+06 | 1.39E+06 | -1.39E+07 | 1.39E+07 |

Table Q-1250. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.70E+04 | -1.05E+05 | 2.45E+05 | -1.05E+05 | 2.43E+05 | -8.51E+06 | 1.23E+07 |
| 1/20 | 2.56E+05 | -7.26E+04 | 7.60E+05 | -5.76E+04 | 7.36E+05 | -6.28E+06 | 9.60E+06 |
| 1/15 | 3.96E+05 | -4.19E+04 | 1.05E+06 | -1.89E+04 | 1.04E+06 | -6.22E+06 | 9.70E+06 |
| 1/10 | 1.91E+05 | -1.08E+06 | 1.07E+06 | -9.59E+05 | 9.15E+05 | -1.15E+07 | 7.24E+06 |

Table Q-1251. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.89E+04 | -9.03E+04 | 2.34E+05 | -9.01E+04 | 2.32E+05 | -7.74E+06 | 1.16E+07 |
| 1/20 | 2.51E+05 | -6.25E+04 | 7.01E+05 | -4.61E+04 | 6.94E+05 | -5.95E+06 | 8.86E+06 |
| 1/15 | 3.79E+05 | -3.65E+04 | 9.31E+05 | -1.11E+04 | 9.22E+05 | -5.85E+06 | 8.15E+06 |
| 1/10 | 2.27E+05 | -6.39E+05 | 1.01E+06 | -5.54E+05 | 8.56E+05 | -7.82E+06 | 6.28E+06 |

Table Q-1252. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -96.8 | -2.34E+05 | 2.34E+05 | -2.33E+05 | 2.33E+05 | -1.40E+07 | 1.40E+07 |
| 1/20 | -290. | -7.02E+05 | 7.02E+05 | -7.00E+05 | 7.00E+05 | -1.40E+07 | 1.40E+07 |
| 1/15 | -387. | -9.37E+05 | 9.37E+05 | -9.33E+05 | 9.33E+05 | -1.40E+07 | 1.40E+07 |
| 1/10 | -581. | -1.40E+06 | 1.40E+06 | -1.40E+06 | 1.40E+06 | -1.40E+07 | 1.40E+07 |

Table Q-1253. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.29E+04 | -9.38E+04 | 2.20E+05 | -9.37E+04 | 2.19E+05 | -7.60E+06 | 1.12E+07 |
| 1/20 | 2.19E+05 | -6.40E+04 | 5.78E+05 | -5.72E+04 | 5.77E+05 | -5.52E+06 | 7.15E+06 |
| 1/15 | 3.25E+05 | -3.64E+04 | 7.18E+05 | -2.68E+04 | 7.16E+05 | -5.27E+06 | 5.87E+06 |
| 1/10 | 1.02E+05 | -9.36E+05 | 8.25E+05 | -9.75E+05 | 7.27E+05 | -1.08E+07 | 6.24E+06 |

Table Q-1254. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.29E+04 | -9.38E+04 | 2.20E+05 | -9.37E+04 | 2.19E+05 | -7.60E+06 | 1.12E+07 |
| 1/20 | 2.19E+05 | -6.40E+04 | 5.78E+05 | -5.72E+04 | 5.77E+05 | -5.52E+06 | 7.15E+06 |
| 1/15 | 3.25E+05 | -3.64E+04 | 7.18E+05 | -2.68E+04 | 7.16E+05 | -5.27E+06 | 5.87E+06 |
| 1/10 | 1.02E+05 | -9.36E+05 | 8.25E+05 | -9.75E+05 | 7.27E+05 | -1.08E+07 | 6.24E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1255. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1256. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 254. | -8.66E+04 | 9.28E+04 | -8.59E+04 | 9.20E+04 | -5.17E+06 | 5.51E+06 |
| 1/20 | 1.01E+05 | -7.97E+04 | 2.99E+05 | -6.80E+04 | 2.95E+05 | -3.39E+06 | 3.88E+06 |
| 1/15 | 1.08E+05 | -9.90E+03 | 3.30E+05 | -627. | 3.28E+05 | -1.63E+06 | 3.30E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

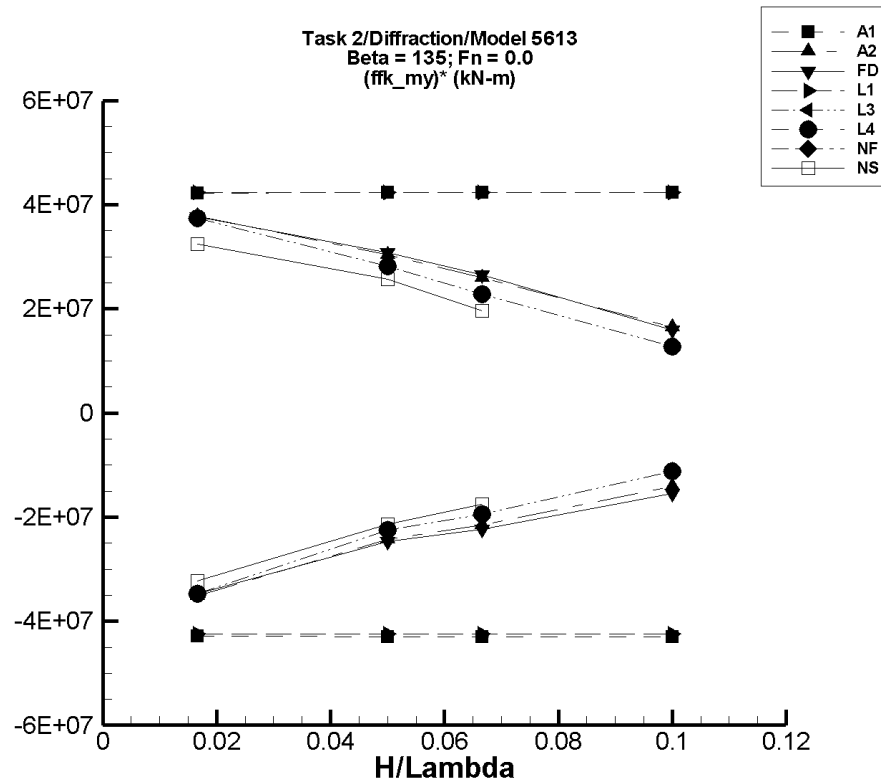


Figure Q-158. Minimum and maximum of filtered $(M_y^{\text{fk}} - \langle M_y^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1257. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 591. | -7.11E+05 | 7.11E+05 | -7.13E+05 | 7.04E+05 | -4.28E+07 | 4.22E+07 |
| 1/20 | 1.78E+03 | -2.14E+06 | 2.14E+06 | -2.14E+06 | 2.12E+06 | -4.29E+07 | 4.23E+07 |
| 1/15 | 2.37E+03 | -2.86E+06 | 2.86E+06 | -2.86E+06 | 2.83E+06 | -4.30E+07 | 4.24E+07 |
| 1/10 | 3.56E+03 | -4.29E+06 | 4.29E+06 | -4.30E+06 | 4.24E+06 | -4.30E+07 | 4.24E+07 |

Table Q-1258. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.77E+04 | -5.52E+05 | 6.76E+05 | -5.49E+05 | 6.69E+05 | -3.52E+07 | 3.79E+07 |
| 1/20 | 2.54E+05 | -9.76E+05 | 1.79E+06 | -9.62E+05 | 1.77E+06 | -2.43E+07 | 3.04E+07 |
| 1/15 | 3.92E+05 | -1.06E+06 | 2.15E+06 | -1.04E+06 | 2.13E+06 | -2.15E+07 | 2.60E+07 |
| 1/10 | 1.53E+05 | -1.27E+06 | 1.89E+06 | -1.25E+06 | 1.80E+06 | -1.40E+07 | 1.65E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1259. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.93E+04 | -5.44E+05 | 6.75E+05 | -5.40E+05 | 6.68E+05 | -3.48E+07 | 3.77E+07 |
| 1/20 | 2.50E+05 | -9.89E+05 | 1.81E+06 | -9.85E+05 | 1.79E+06 | -2.47E+07 | 3.08E+07 |
| 1/15 | 3.76E+05 | -1.13E+06 | 2.18E+06 | -1.12E+06 | 2.15E+06 | -2.24E+07 | 2.66E+07 |
| 1/10 | 2.25E+05 | -1.34E+06 | 1.88E+06 | -1.32E+06 | 1.81E+06 | -1.55E+07 | 1.59E+07 |

Table Q-1260. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 747. | -7.09E+05 | 7.09E+05 | -7.08E+05 | 7.06E+05 | -4.25E+07 | 4.23E+07 |
| 1/20 | 2.24E+03 | -2.13E+06 | 2.13E+06 | -2.12E+06 | 2.12E+06 | -4.25E+07 | 4.23E+07 |
| 1/15 | 2.99E+03 | -2.83E+06 | 2.83E+06 | -2.83E+06 | 2.82E+06 | -4.25E+07 | 4.23E+07 |
| 1/10 | 4.48E+03 | -4.25E+06 | 4.25E+06 | -4.25E+06 | 4.24E+06 | -4.25E+07 | 4.23E+07 |

Table Q-1261. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.34E+04 | -5.47E+05 | 6.59E+05 | -5.45E+05 | 6.57E+05 | -3.47E+07 | 3.74E+07 |
| 1/20 | 2.19E+05 | -9.09E+05 | 1.63E+06 | -9.07E+05 | 1.63E+06 | -2.25E+07 | 2.82E+07 |
| 1/15 | 3.26E+05 | -9.76E+05 | 1.86E+06 | -9.72E+05 | 1.85E+06 | -1.95E+07 | 2.29E+07 |
| 1/10 | 1.16E+05 | -1.02E+06 | 1.46E+06 | -1.01E+06 | 1.39E+06 | -1.12E+07 | 1.28E+07 |

Table Q-1262. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.34E+04 | -5.47E+05 | 6.59E+05 | -5.45E+05 | 6.57E+05 | -3.47E+07 | 3.74E+07 |
| 1/20 | 2.19E+05 | -9.09E+05 | 1.63E+06 | -9.07E+05 | 1.63E+06 | -2.25E+07 | 2.82E+07 |
| 1/15 | 3.26E+05 | -9.76E+05 | 1.86E+06 | -9.72E+05 | 1.85E+06 | -1.95E+07 | 2.29E+07 |
| 1/10 | 1.16E+05 | -1.02E+06 | 1.46E+06 | -1.01E+06 | 1.39E+06 | -1.12E+07 | 1.28E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1263. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1264. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 663. | -5.37E+05 | 5.47E+05 | -5.36E+05 | 5.41E+05 | -3.22E+07 | 3.24E+07 |
| 1/20 | 1.03E+05 | -9.86E+05 | 1.40E+06 | -9.63E+05 | 1.39E+06 | -2.13E+07 | 2.57E+07 |
| 1/15 | 1.08E+05 | -1.07E+06 | 1.43E+06 | -1.06E+06 | 1.42E+06 | -1.75E+07 | 1.97E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

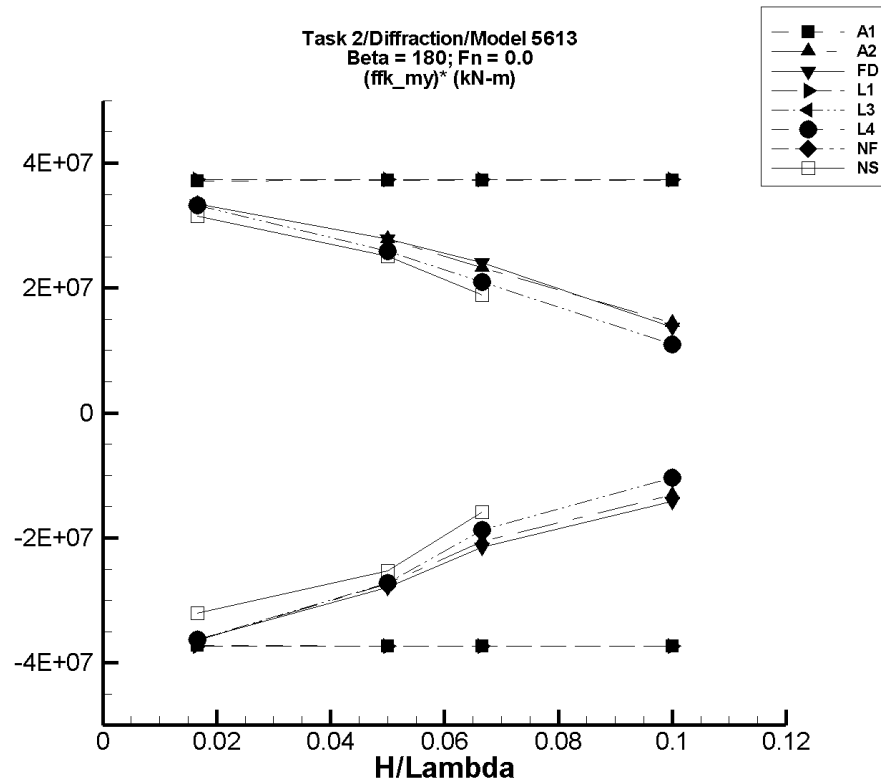


Figure Q-159. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1265. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 589. | -6.26E+05 | 6.26E+05 | -6.20E+05 | 6.20E+05 | -3.72E+07 | 3.71E+07 |
| 1/20 | 1.77E+03 | -1.88E+06 | 1.88E+06 | -1.86E+06 | 1.86E+06 | -3.73E+07 | 3.72E+07 |
| 1/15 | 2.36E+03 | -2.51E+06 | 2.51E+06 | -2.49E+06 | 2.49E+06 | -3.74E+07 | 3.73E+07 |
| 1/10 | 3.55E+03 | -3.77E+06 | 3.77E+06 | -3.73E+06 | 3.73E+06 | -3.74E+07 | 3.73E+07 |

Table Q-1266. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.72E+04 | -5.73E+05 | 6.00E+05 | -5.70E+05 | 5.95E+05 | -3.65E+07 | 3.35E+07 |
| 1/20 | 2.58E+05 | -1.18E+06 | 1.67E+06 | -1.11E+06 | 1.65E+06 | -2.74E+07 | 2.78E+07 |
| 1/15 | 3.93E+05 | -9.86E+05 | 1.96E+06 | -9.80E+05 | 1.94E+06 | -2.06E+07 | 2.32E+07 |
| 1/10 | 1.66E+05 | -1.17E+06 | 1.66E+06 | -1.15E+06 | 1.61E+06 | -1.32E+07 | 1.44E+07 |

Table Q-1267. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.76E+04 | -5.67E+05 | 6.02E+05 | -5.67E+05 | 5.96E+05 | -3.63E+07 | 3.35E+07 |
| 1/20 | 2.53E+05 | -1.23E+06 | 1.67E+06 | -1.14E+06 | 1.65E+06 | -2.80E+07 | 2.79E+07 |
| 1/15 | 3.77E+05 | -1.05E+06 | 2.00E+06 | -1.05E+06 | 1.98E+06 | -2.15E+07 | 2.41E+07 |
| 1/10 | 2.19E+05 | -1.19E+06 | 1.67E+06 | -1.19E+06 | 1.59E+06 | -1.41E+07 | 1.37E+07 |

Table Q-1268. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 378. | -6.25E+05 | 6.25E+05 | -6.22E+05 | 6.22E+05 | -3.74E+07 | 3.73E+07 |
| 1/20 | 1.13E+03 | -1.87E+06 | 1.87E+06 | -1.87E+06 | 1.87E+06 | -3.74E+07 | 3.73E+07 |
| 1/15 | 1.51E+03 | -2.50E+06 | 2.50E+06 | -2.49E+06 | 2.49E+06 | -3.74E+07 | 3.73E+07 |
| 1/10 | 2.27E+03 | -3.75E+06 | 3.75E+06 | -3.73E+06 | 3.73E+06 | -3.74E+07 | 3.73E+07 |

Table Q-1269. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.28E+04 | -5.72E+05 | 5.90E+05 | -5.72E+05 | 5.87E+05 | -3.63E+07 | 3.33E+07 |
| 1/20 | 2.25E+05 | -1.17E+06 | 1.53E+06 | -1.13E+06 | 1.52E+06 | -2.72E+07 | 2.59E+07 |
| 1/15 | 3.26E+05 | -9.20E+05 | 1.73E+06 | -9.21E+05 | 1.73E+06 | -1.87E+07 | 2.10E+07 |
| 1/10 | 1.29E+05 | -9.14E+05 | 1.31E+06 | -9.05E+05 | 1.23E+06 | -1.03E+07 | 1.10E+07 |

Table Q-1270. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.28E+04 | -5.72E+05 | 5.90E+05 | -5.72E+05 | 5.87E+05 | -3.63E+07 | 3.33E+07 |
| 1/20 | 2.25E+05 | -1.17E+06 | 1.53E+06 | -1.13E+06 | 1.52E+06 | -2.72E+07 | 2.59E+07 |
| 1/15 | 3.26E+05 | -9.20E+05 | 1.73E+06 | -9.21E+05 | 1.73E+06 | -1.87E+07 | 2.10E+07 |
| 1/10 | 1.29E+05 | -9.14E+05 | 1.31E+06 | -9.05E+05 | 1.23E+06 | -1.03E+07 | 1.10E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1271. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1272. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.19E+03 | -5.31E+05 | 5.32E+05 | -5.32E+05 | 5.27E+05 | -3.20E+07 | 3.15E+07 |
| 1/20 | 1.14E+05 | -1.21E+06 | 1.39E+06 | -1.15E+06 | 1.37E+06 | -2.53E+07 | 2.51E+07 |
| 1/15 | 1.09E+05 | -9.89E+05 | 1.38E+06 | -9.52E+05 | 1.37E+06 | -1.59E+07 | 1.89E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

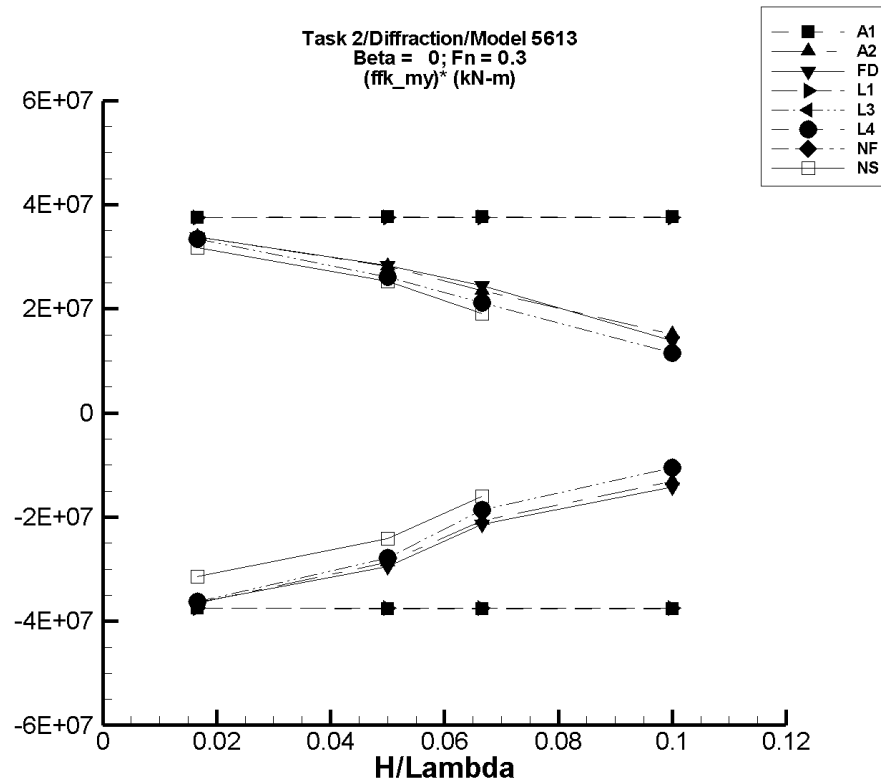


Figure Q-160. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1273. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -11.0 | -6.26E+05 | 6.26E+05 | -6.26E+05 | 6.26E+05 | -3.75E+07 | 3.75E+07 |
| 1/20 | -33.4 | -1.88E+06 | 1.88E+06 | -1.88E+06 | 1.88E+06 | -3.76E+07 | 3.76E+07 |
| 1/15 | -44.5 | -2.51E+06 | 2.51E+06 | -2.51E+06 | 2.51E+06 | -3.77E+07 | 3.77E+07 |
| 1/10 | -66.2 | -3.77E+06 | 3.77E+06 | -3.77E+06 | 3.77E+06 | -3.77E+07 | 3.77E+07 |

Table Q-1274. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.66E+04 | -5.73E+05 | 6.00E+05 | -5.72E+05 | 6.00E+05 | -3.65E+07 | 3.38E+07 |
| 1/20 | 2.56E+05 | -1.18E+06 | 1.67E+06 | -1.18E+06 | 1.66E+06 | -2.87E+07 | 2.82E+07 |
| 1/15 | 3.94E+05 | -1.00E+06 | 1.96E+06 | -9.82E+05 | 1.96E+06 | -2.06E+07 | 2.35E+07 |
| 1/10 | 1.51E+05 | -1.17E+06 | 1.67E+06 | -1.16E+06 | 1.66E+06 | -1.31E+07 | 1.51E+07 |

Table Q-1275. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.81E+04 | -5.67E+05 | 6.02E+05 | -5.68E+05 | 6.01E+05 | -3.64E+07 | 3.38E+07 |
| 1/20 | 2.51E+05 | -1.23E+06 | 1.67E+06 | -1.22E+06 | 1.67E+06 | -2.95E+07 | 2.83E+07 |
| 1/15 | 3.74E+05 | -1.05E+06 | 2.00E+06 | -1.05E+06 | 2.00E+06 | -2.14E+07 | 2.44E+07 |
| 1/10 | 2.25E+05 | -1.19E+06 | 1.67E+06 | -1.19E+06 | 1.60E+06 | -1.42E+07 | 1.38E+07 |

Table Q-1276. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -477. | -6.25E+05 | 6.25E+05 | -6.25E+05 | 6.25E+05 | -3.74E+07 | 3.75E+07 |
| 1/20 | -1.43E+03 | -1.87E+06 | 1.87E+06 | -1.87E+06 | 1.87E+06 | -3.74E+07 | 3.75E+07 |
| 1/15 | -1.91E+03 | -2.50E+06 | 2.50E+06 | -2.50E+06 | 2.50E+06 | -3.74E+07 | 3.75E+07 |
| 1/10 | -2.86E+03 | -3.75E+06 | 3.75E+06 | -3.75E+06 | 3.75E+06 | -3.74E+07 | 3.75E+07 |

Table Q-1277. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.29E+04 | -5.72E+05 | 5.90E+05 | -5.72E+05 | 5.90E+05 | -3.63E+07 | 3.34E+07 |
| 1/20 | 2.21E+05 | -1.17E+06 | 1.53E+06 | -1.17E+06 | 1.53E+06 | -2.78E+07 | 2.61E+07 |
| 1/15 | 3.22E+05 | -9.20E+05 | 1.73E+06 | -9.20E+05 | 1.73E+06 | -1.86E+07 | 2.12E+07 |
| 1/10 | 1.31E+05 | -9.14E+05 | 1.31E+06 | -9.13E+05 | 1.29E+06 | -1.04E+07 | 1.16E+07 |

Table Q-1278. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.29E+04 | -5.72E+05 | 5.90E+05 | -5.72E+05 | 5.90E+05 | -3.63E+07 | 3.34E+07 |
| 1/20 | 2.21E+05 | -1.17E+06 | 1.53E+06 | -1.17E+06 | 1.53E+06 | -2.78E+07 | 2.61E+07 |
| 1/15 | 3.22E+05 | -9.20E+05 | 1.73E+06 | -9.20E+05 | 1.73E+06 | -1.86E+07 | 2.12E+07 |
| 1/10 | 1.31E+05 | -9.14E+05 | 1.31E+06 | -9.13E+05 | 1.29E+06 | -1.04E+07 | 1.16E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1279. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1280. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 653. | -5.30E+05 | 5.32E+05 | -5.24E+05 | 5.29E+05 | -3.15E+07 | 3.17E+07 |
| 1/20 | 1.11E+05 | -1.17E+06 | 1.39E+06 | -1.10E+06 | 1.38E+06 | -2.42E+07 | 2.53E+07 |
| 1/15 | 1.10E+05 | -9.72E+05 | 1.38E+06 | -9.59E+05 | 1.38E+06 | -1.60E+07 | 1.91E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

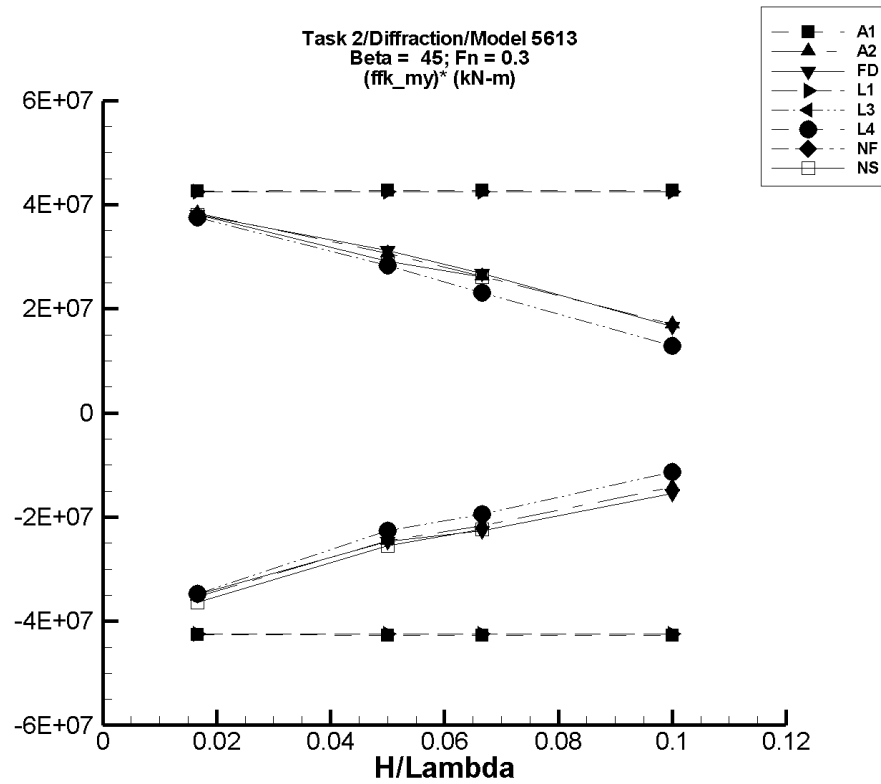


Figure Q-161. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1281. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 167. | -7.12E+05 | 7.12E+05 | -7.10E+05 | 7.11E+05 | -4.26E+07 | 4.26E+07 |
| 1/20 | 503. | -2.14E+06 | 2.14E+06 | -2.14E+06 | 2.14E+06 | -4.27E+07 | 4.27E+07 |
| 1/15 | 672. | -2.86E+06 | 2.86E+06 | -2.85E+06 | 2.85E+06 | -4.28E+07 | 4.28E+07 |
| 1/10 | 1.01E+03 | -4.29E+06 | 4.29E+06 | -4.28E+06 | 4.28E+06 | -4.28E+07 | 4.28E+07 |

Table Q-1282. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.72E+04 | -5.52E+05 | 6.76E+05 | -5.51E+05 | 6.76E+05 | -3.53E+07 | 3.84E+07 |
| 1/20 | 2.56E+05 | -9.76E+05 | 1.80E+06 | -9.73E+05 | 1.79E+06 | -2.46E+07 | 3.07E+07 |
| 1/15 | 3.93E+05 | -1.06E+06 | 2.15E+06 | -1.06E+06 | 2.14E+06 | -2.17E+07 | 2.63E+07 |
| 1/10 | 1.61E+05 | -1.27E+06 | 1.89E+06 | -1.27E+06 | 1.87E+06 | -1.43E+07 | 1.71E+07 |

Table Q-1283. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.81E+04 | -5.44E+05 | 6.74E+05 | -5.43E+05 | 6.74E+05 | -3.49E+07 | 3.81E+07 |
| 1/20 | 2.48E+05 | -9.89E+05 | 1.81E+06 | -9.87E+05 | 1.80E+06 | -2.47E+07 | 3.11E+07 |
| 1/15 | 3.77E+05 | -1.13E+06 | 2.18E+06 | -1.13E+06 | 2.17E+06 | -2.26E+07 | 2.68E+07 |
| 1/10 | 2.10E+05 | -1.34E+06 | 1.89E+06 | -1.34E+06 | 1.86E+06 | -1.55E+07 | 1.65E+07 |

Table Q-1284. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 90.2 | -7.09E+05 | 7.09E+05 | -7.08E+05 | 7.08E+05 | -4.25E+07 | 4.25E+07 |
| 1/20 | 271. | -2.13E+06 | 2.13E+06 | -2.12E+06 | 2.12E+06 | -4.25E+07 | 4.25E+07 |
| 1/15 | 361. | -2.83E+06 | 2.83E+06 | -2.83E+06 | 2.83E+06 | -4.25E+07 | 4.25E+07 |
| 1/10 | 541. | -4.25E+06 | 4.25E+06 | -4.25E+06 | 4.25E+06 | -4.25E+07 | 4.25E+07 |

Table Q-1285. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.33E+04 | -5.47E+05 | 6.59E+05 | -5.46E+05 | 6.58E+05 | -3.48E+07 | 3.75E+07 |
| 1/20 | 2.20E+05 | -9.09E+05 | 1.63E+06 | -9.09E+05 | 1.63E+06 | -2.26E+07 | 2.83E+07 |
| 1/15 | 3.25E+05 | -9.76E+05 | 1.86E+06 | -9.74E+05 | 1.86E+06 | -1.95E+07 | 2.30E+07 |
| 1/10 | 1.23E+05 | -1.02E+06 | 1.47E+06 | -1.01E+06 | 1.41E+06 | -1.13E+07 | 1.29E+07 |

Table Q-1286. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.33E+04 | -5.47E+05 | 6.59E+05 | -5.46E+05 | 6.58E+05 | -3.48E+07 | 3.75E+07 |
| 1/20 | 2.20E+05 | -9.09E+05 | 1.63E+06 | -9.09E+05 | 1.63E+06 | -2.26E+07 | 2.83E+07 |
| 1/15 | 3.25E+05 | -9.76E+05 | 1.86E+06 | -9.74E+05 | 1.86E+06 | -1.95E+07 | 2.30E+07 |
| 1/10 | 1.23E+05 | -1.02E+06 | 1.47E+06 | -1.01E+06 | 1.41E+06 | -1.13E+07 | 1.29E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1287. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1288. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.23E+03 | -6.05E+05 | 6.40E+05 | -6.00E+05 | 6.41E+05 | -3.64E+07 | 3.81E+07 |
| 1/20 | 5.84E+04 | -1.23E+06 | 1.51E+06 | -1.22E+06 | 1.52E+06 | -2.55E+07 | 2.92E+07 |
| 1/15 | 1.31E+05 | -1.37E+06 | 1.87E+06 | -1.36E+06 | 1.88E+06 | -2.24E+07 | 2.62E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

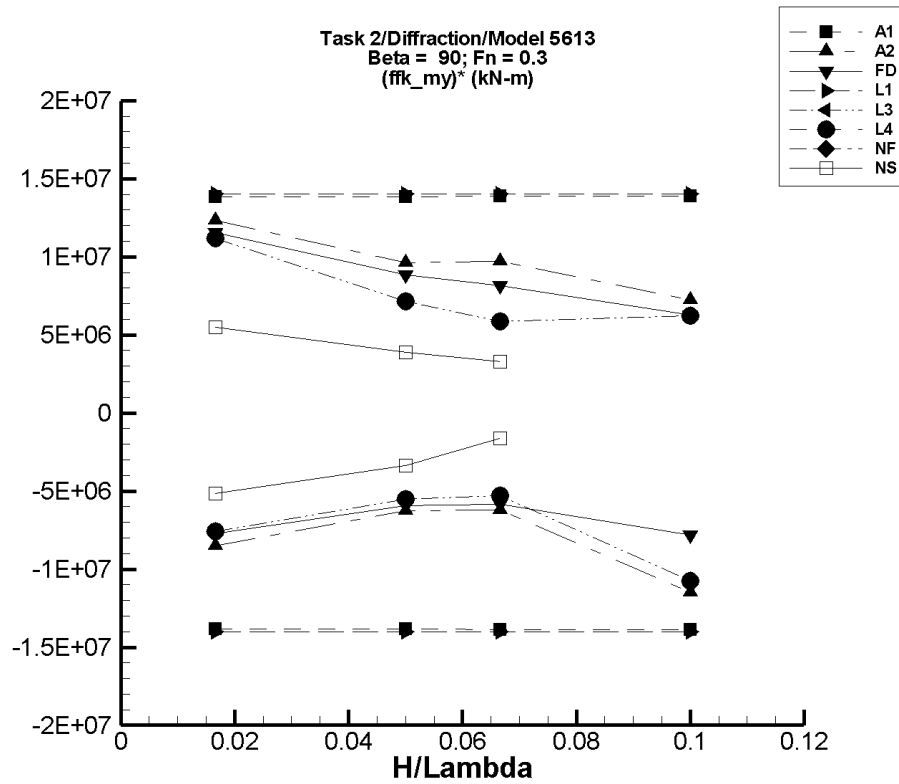


Figure Q-162. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1289. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -147. | -2.33E+05 | 2.33E+05 | -2.30E+05 | 2.30E+05 | -1.38E+07 | 1.38E+07 |
| 1/20 | -443. | -7.00E+05 | 7.00E+05 | -6.93E+05 | 6.92E+05 | -1.38E+07 | 1.39E+07 |
| 1/15 | -591. | -9.34E+05 | 9.34E+05 | -9.25E+05 | 9.25E+05 | -1.39E+07 | 1.39E+07 |
| 1/10 | -886. | -1.40E+06 | 1.40E+06 | -1.39E+06 | 1.39E+06 | -1.39E+07 | 1.39E+07 |

Table Q–1290. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.70E+04 | -1.05E+05 | 2.45E+05 | -1.05E+05 | 2.43E+05 | -8.51E+06 | 1.23E+07 |
| 1/20 | 2.56E+05 | -7.26E+04 | 7.60E+05 | -5.76E+04 | 7.36E+05 | -6.28E+06 | 9.60E+06 |
| 1/15 | 3.94E+05 | -4.19E+04 | 1.05E+06 | -1.88E+04 | 1.04E+06 | -6.20E+06 | 9.73E+06 |
| 1/10 | 1.91E+05 | -1.08E+06 | 1.07E+06 | -9.59E+05 | 9.15E+05 | -1.15E+07 | 7.24E+06 |

Table Q-1291. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.89E+04 | -9.03E+04 | 2.34E+05 | -9.01E+04 | 2.32E+05 | -7.74E+06 | 1.16E+07 |
| 1/20 | 2.51E+05 | -6.25E+04 | 7.01E+05 | -4.61E+04 | 6.94E+05 | -5.95E+06 | 8.86E+06 |
| 1/15 | 3.79E+05 | -3.65E+04 | 9.31E+05 | -1.11E+04 | 9.22E+05 | -5.85E+06 | 8.15E+06 |
| 1/10 | 2.27E+05 | -6.39E+05 | 1.01E+06 | -5.54E+05 | 8.56E+05 | -7.82E+06 | 6.28E+06 |

Table Q-1292. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -96.8 | -2.34E+05 | 2.34E+05 | -2.33E+05 | 2.33E+05 | -1.40E+07 | 1.40E+07 |
| 1/20 | -290. | -7.02E+05 | 7.02E+05 | -7.00E+05 | 7.00E+05 | -1.40E+07 | 1.40E+07 |
| 1/15 | -387. | -9.37E+05 | 9.37E+05 | -9.33E+05 | 9.33E+05 | -1.40E+07 | 1.40E+07 |
| 1/10 | -581. | -1.40E+06 | 1.40E+06 | -1.40E+06 | 1.40E+06 | -1.40E+07 | 1.40E+07 |

Table Q-1293. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.29E+04 | -9.38E+04 | 2.20E+05 | -9.37E+04 | 2.19E+05 | -7.60E+06 | 1.12E+07 |
| 1/20 | 2.19E+05 | -6.40E+04 | 5.78E+05 | -5.72E+04 | 5.77E+05 | -5.52E+06 | 7.15E+06 |
| 1/15 | 3.25E+05 | -3.64E+04 | 7.18E+05 | -2.68E+04 | 7.16E+05 | -5.27E+06 | 5.87E+06 |
| 1/10 | 1.02E+05 | -9.36E+05 | 8.25E+05 | -9.75E+05 | 7.27E+05 | -1.08E+07 | 6.24E+06 |

Table Q-1294. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.29E+04 | -9.38E+04 | 2.20E+05 | -9.37E+04 | 2.19E+05 | -7.60E+06 | 1.12E+07 |
| 1/20 | 2.19E+05 | -6.40E+04 | 5.78E+05 | -5.72E+04 | 5.77E+05 | -5.52E+06 | 7.15E+06 |
| 1/15 | 3.25E+05 | -3.64E+04 | 7.18E+05 | -2.68E+04 | 7.16E+05 | -5.27E+06 | 5.87E+06 |
| 1/10 | 1.02E+05 | -9.36E+05 | 8.25E+05 | -9.75E+05 | 7.27E+05 | -1.08E+07 | 6.24E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1295. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1296. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_y^{fk} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 254. | -8.66E+04 | 9.28E+04 | -8.59E+04 | 9.20E+04 | -5.17E+06 | 5.51E+06 |
| 1/20 | 1.01E+05 | -7.97E+04 | 2.99E+05 | -6.80E+04 | 2.95E+05 | -3.39E+06 | 3.88E+06 |
| 1/15 | 1.08E+05 | -9.90E+03 | 3.30E+05 | -627. | 3.28E+05 | -1.63E+06 | 3.30E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

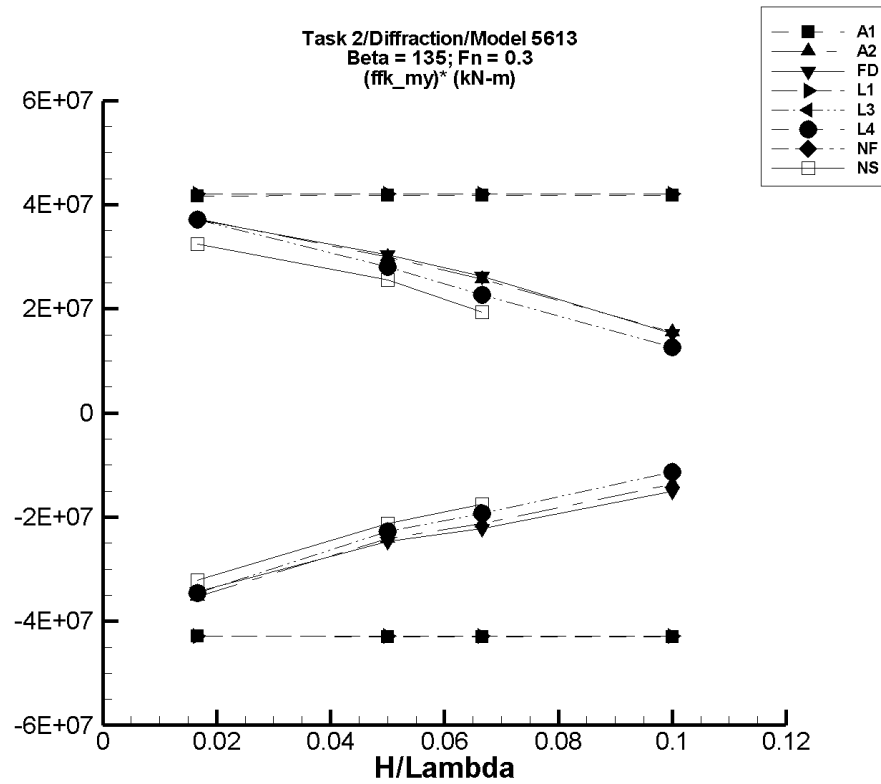


Figure Q-163. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1297. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 281. | -7.11E+05 | 7.11E+05 | -7.14E+05 | 6.95E+05 | -4.29E+07 | 4.17E+07 |
| 1/20 | 844. | -2.14E+06 | 2.14E+06 | -2.15E+06 | 2.09E+06 | -4.30E+07 | 4.18E+07 |
| 1/15 | 1.13E+03 | -2.86E+06 | 2.86E+06 | -2.87E+06 | 2.79E+06 | -4.30E+07 | 4.18E+07 |
| 1/10 | 1.69E+03 | -4.28E+06 | 4.29E+06 | -4.30E+06 | 4.18E+06 | -4.30E+07 | 4.18E+07 |

Table Q-1298. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.71E+04 | -5.52E+05 | 6.76E+05 | -5.51E+05 | 6.59E+05 | -3.53E+07 | 3.73E+07 |
| 1/20 | 2.54E+05 | -9.76E+05 | 1.80E+06 | -9.56E+05 | 1.75E+06 | -2.42E+07 | 3.00E+07 |
| 1/15 | 3.92E+05 | -1.06E+06 | 2.15E+06 | -1.02E+06 | 2.11E+06 | -2.12E+07 | 2.57E+07 |
| 1/10 | 1.46E+05 | -1.27E+06 | 1.88E+06 | -1.22E+06 | 1.70E+06 | -1.37E+07 | 1.55E+07 |

Table Q–1299. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.84E+04 | -5.44E+05 | 6.74E+05 | -5.35E+05 | 6.58E+05 | -3.44E+07 | 3.72E+07 |
| 1/20 | 2.46E+05 | -9.89E+05 | 1.80E+06 | -9.87E+05 | 1.77E+06 | -2.47E+07 | 3.04E+07 |
| 1/15 | 3.75E+05 | -1.13E+06 | 2.18E+06 | -1.10E+06 | 2.12E+06 | -2.22E+07 | 2.62E+07 |
| 1/10 | 2.17E+05 | -1.34E+06 | 1.88E+06 | -1.29E+06 | 1.74E+06 | -1.51E+07 | 1.52E+07 |

Table Q–1300. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 37.4 | -7.08E+05 | 7.08E+05 | -7.14E+05 | 7.02E+05 | -4.28E+07 | 4.21E+07 |
| 1/20 | 112. | -2.13E+06 | 2.13E+06 | -2.14E+06 | 2.11E+06 | -4.28E+07 | 4.21E+07 |
| 1/15 | 149. | -2.83E+06 | 2.83E+06 | -2.86E+06 | 2.81E+06 | -4.28E+07 | 4.21E+07 |
| 1/10 | 224. | -4.25E+06 | 4.25E+06 | -4.28E+06 | 4.21E+06 | -4.28E+07 | 4.21E+07 |

Table Q-1301. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.35E+04 | -5.47E+05 | 6.59E+05 | -5.43E+05 | 6.53E+05 | -3.46E+07 | 3.72E+07 |
| 1/20 | 2.20E+05 | -9.09E+05 | 1.63E+06 | -9.20E+05 | 1.62E+06 | -2.28E+07 | 2.80E+07 |
| 1/15 | 3.25E+05 | -9.76E+05 | 1.86E+06 | -9.67E+05 | 1.84E+06 | -1.94E+07 | 2.27E+07 |
| 1/10 | 1.30E+05 | -1.02E+06 | 1.45E+06 | -1.00E+06 | 1.39E+06 | -1.13E+07 | 1.26E+07 |

Table Q-1302. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.35E+04 | -5.47E+05 | 6.59E+05 | -5.43E+05 | 6.53E+05 | -3.46E+07 | 3.72E+07 |
| 1/20 | 2.20E+05 | -9.09E+05 | 1.63E+06 | -9.20E+05 | 1.62E+06 | -2.28E+07 | 2.80E+07 |
| 1/15 | 3.25E+05 | -9.76E+05 | 1.86E+06 | -9.67E+05 | 1.84E+06 | -1.94E+07 | 2.27E+07 |
| 1/10 | 1.30E+05 | -1.02E+06 | 1.45E+06 | -1.00E+06 | 1.39E+06 | -1.13E+07 | 1.26E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1303. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1304. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 675. | -5.35E+05 | 5.46E+05 | -5.35E+05 | 5.41E+05 | -3.21E+07 | 3.24E+07 |
| 1/20 | 1.06E+05 | -9.78E+05 | 1.39E+06 | -9.54E+05 | 1.38E+06 | -2.12E+07 | 2.55E+07 |
| 1/15 | 1.08E+05 | -1.07E+06 | 1.41E+06 | -1.06E+06 | 1.40E+06 | -1.75E+07 | 1.94E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

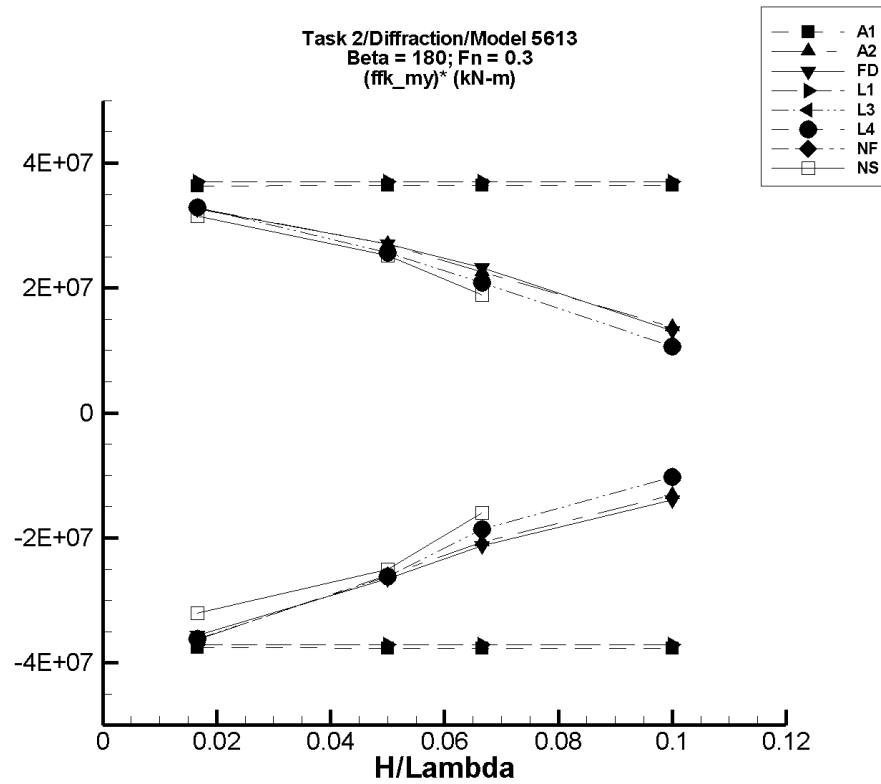


Figure Q-164. Minimum and maximum of filtered $(M_y^{fk} - \langle M_y^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1305. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 617. | -6.26E+05 | 6.26E+05 | -6.26E+05 | 6.06E+05 | -3.76E+07 | 3.63E+07 |
| 1/20 | 1.85E+03 | -1.88E+06 | 1.88E+06 | -1.88E+06 | 1.82E+06 | -3.77E+07 | 3.64E+07 |
| 1/15 | 2.48E+03 | -2.51E+06 | 2.51E+06 | -2.51E+06 | 2.43E+06 | -3.77E+07 | 3.65E+07 |
| 1/10 | 3.71E+03 | -3.77E+06 | 3.77E+06 | -3.77E+06 | 3.65E+06 | -3.77E+07 | 3.65E+07 |

Table Q-1306. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.70E+04 | -5.73E+05 | 6.00E+05 | -5.68E+05 | 5.83E+05 | -3.63E+07 | 3.27E+07 |
| 1/20 | 2.59E+05 | -1.18E+06 | 1.66E+06 | -1.04E+06 | 1.61E+06 | -2.59E+07 | 2.70E+07 |
| 1/15 | 3.96E+05 | -1.00E+06 | 1.96E+06 | -9.86E+05 | 1.90E+06 | -2.07E+07 | 2.25E+07 |
| 1/10 | 1.52E+05 | -1.17E+06 | 1.68E+06 | -1.16E+06 | 1.52E+06 | -1.32E+07 | 1.37E+07 |

Table Q-1307. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.81E+04 | -5.67E+05 | 6.01E+05 | -5.55E+05 | 5.82E+05 | -3.56E+07 | 3.26E+07 |
| 1/20 | 2.55E+05 | -1.22E+06 | 1.67E+06 | -1.07E+06 | 1.61E+06 | -2.65E+07 | 2.71E+07 |
| 1/15 | 3.79E+05 | -1.05E+06 | 2.00E+06 | -1.04E+06 | 1.93E+06 | -2.12E+07 | 2.33E+07 |
| 1/10 | 2.18E+05 | -1.19E+06 | 1.68E+06 | -1.18E+06 | 1.53E+06 | -1.40E+07 | 1.31E+07 |

Table Q-1308. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 967. | -6.25E+05 | 6.25E+05 | -6.18E+05 | 6.18E+05 | -3.71E+07 | 3.70E+07 |
| 1/20 | 2.90E+03 | -1.87E+06 | 1.87E+06 | -1.85E+06 | 1.85E+06 | -3.71E+07 | 3.70E+07 |
| 1/15 | 3.87E+03 | -2.50E+06 | 2.50E+06 | -2.47E+06 | 2.47E+06 | -3.71E+07 | 3.70E+07 |
| 1/10 | 5.80E+03 | -3.75E+06 | 3.75E+06 | -3.71E+06 | 3.71E+06 | -3.71E+07 | 3.70E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1309. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.41E+04 | -5.72E+05 | 5.90E+05 | -5.69E+05 | 5.83E+05 | -3.62E+07 | 3.29E+07 |
| 1/20 | 2.27E+05 | -1.17E+06 | 1.53E+06 | -1.08E+06 | 1.51E+06 | -2.62E+07 | 2.57E+07 |
| 1/15 | 3.24E+05 | -9.20E+05 | 1.73E+06 | -9.16E+05 | 1.71E+06 | -1.86E+07 | 2.08E+07 |
| 1/10 | 1.29E+05 | -9.13E+05 | 1.30E+06 | -9.02E+05 | 1.19E+06 | -1.03E+07 | 1.06E+07 |

Table Q–1310. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.41E+04 | -5.72E+05 | 5.90E+05 | -5.69E+05 | 5.83E+05 | -3.62E+07 | 3.29E+07 |
| 1/20 | 2.27E+05 | -1.17E+06 | 1.53E+06 | -1.08E+06 | 1.51E+06 | -2.62E+07 | 2.57E+07 |
| 1/15 | 3.24E+05 | -9.20E+05 | 1.73E+06 | -9.16E+05 | 1.71E+06 | -1.86E+07 | 2.08E+07 |
| 1/10 | 1.29E+05 | -9.13E+05 | 1.30E+06 | -9.02E+05 | 1.19E+06 | -1.03E+07 | 1.06E+07 |

Table Q–1311. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1312. Minimum and Maximum of Variables M_y^{fk} and $(M_y^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{fk}} \rangle$ | Unfiltered M_y^{fk} | | Filtered M_y^{fk} | | Filtered $(M_y^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.44E+03 | -5.31E+05 | 5.32E+05 | -5.32E+05 | 5.27E+05 | -3.20E+07 | 3.15E+07 |
| 1/20 | 1.14E+05 | -1.20E+06 | 1.39E+06 | -1.14E+06 | 1.37E+06 | -2.50E+07 | 2.52E+07 |
| 1/15 | 1.09E+05 | -9.72E+05 | 1.38E+06 | -9.57E+05 | 1.37E+06 | -1.60E+07 | 1.89E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

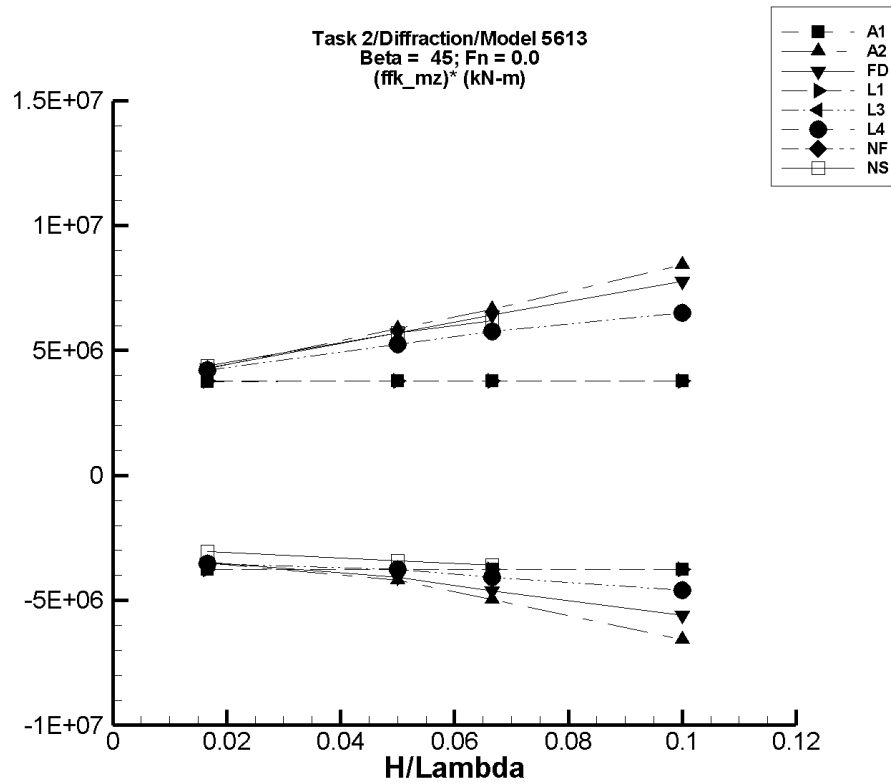


Figure Q-165. Minimum and maximum of filtered $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1313. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -37.4 | -6.33E+04 | 6.32E+04 | -6.26E+04 | 6.26E+04 | -3.76E+06 | 3.76E+06 |
| 1/20 | -112. | -1.90E+05 | 1.90E+05 | -1.88E+05 | 1.88E+05 | -3.77E+06 | 3.77E+06 |
| 1/15 | -150. | -2.54E+05 | 2.54E+05 | -2.51E+05 | 2.51E+05 | -3.77E+06 | 3.77E+06 |
| 1/10 | -225. | -3.81E+05 | 3.81E+05 | -3.77E+05 | 3.77E+05 | -3.77E+06 | 3.77E+06 |

Table Q-1314. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 39.6 | -5.97E+04 | 7.15E+04 | -5.85E+04 | 7.10E+04 | -3.51E+06 | 4.26E+06 |
| 1/20 | -189. | -2.18E+05 | 5.61E+05 | -2.10E+05 | 2.94E+05 | -4.19E+06 | 5.88E+06 |
| 1/15 | 1.36E+03 | -3.40E+05 | 4.66E+05 | -3.29E+05 | 4.45E+05 | -4.95E+06 | 6.66E+06 |
| 1/10 | 2.12E+04 | -6.55E+05 | 1.53E+06 | -6.37E+05 | 8.65E+05 | -6.58E+06 | 8.43E+06 |

Table Q–1315. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 81.2 | -5.86E+04 | 7.27E+04 | -5.81E+04 | 7.17E+04 | -3.49E+06 | 4.30E+06 |
| 1/20 | 1.38E+03 | -2.07E+05 | 2.91E+05 | -2.03E+05 | 2.86E+05 | -4.08E+06 | 5.70E+06 |
| 1/15 | 2.80E+03 | -3.12E+05 | 4.38E+05 | -3.05E+05 | 4.31E+05 | -4.62E+06 | 6.43E+06 |
| 1/10 | 4.52E+03 | -5.65E+05 | 7.92E+05 | -5.55E+05 | 7.81E+05 | -5.59E+06 | 7.77E+06 |

Table Q–1316. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 35.9 | -6.31E+04 | 6.31E+04 | -6.29E+04 | 6.29E+04 | -3.77E+06 | 3.77E+06 |
| 1/20 | 107. | -1.89E+05 | 1.89E+05 | -1.89E+05 | 1.89E+05 | -3.77E+06 | 3.77E+06 |
| 1/15 | 143. | -2.52E+05 | 2.52E+05 | -2.51E+05 | 2.51E+05 | -3.77E+06 | 3.77E+06 |
| 1/10 | 215. | -3.79E+05 | 3.79E+05 | -3.77E+05 | 3.77E+05 | -3.77E+06 | 3.77E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1317. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 83.9 | -5.92E+04 | 7.07E+04 | -5.90E+04 | 7.03E+04 | -3.54E+06 | 4.21E+06 |
| 1/20 | 651. | -1.88E+05 | 2.65E+05 | -1.87E+05 | 2.63E+05 | -3.76E+06 | 5.25E+06 |
| 1/15 | 683. | -2.73E+05 | 3.86E+05 | -2.71E+05 | 3.84E+05 | -4.08E+06 | 5.75E+06 |
| 1/10 | 878. | -4.61E+05 | 6.55E+05 | -4.57E+05 | 6.52E+05 | -4.58E+06 | 6.51E+06 |

Table Q-1318. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 83.9 | -5.92E+04 | 7.07E+04 | -5.90E+04 | 7.03E+04 | -3.54E+06 | 4.21E+06 |
| 1/20 | 651. | -1.88E+05 | 2.65E+05 | -1.87E+05 | 2.63E+05 | -3.76E+06 | 5.25E+06 |
| 1/15 | 683. | -2.73E+05 | 3.86E+05 | -2.71E+05 | 3.84E+05 | -4.08E+06 | 5.75E+06 |
| 1/10 | 878. | -4.61E+05 | 6.55E+05 | -4.57E+05 | 6.52E+05 | -4.58E+06 | 6.51E+06 |

Table Q-1319. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1320. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -23.1 | -5.12E+04 | 7.30E+04 | -5.09E+04 | 7.31E+04 | -3.05E+06 | 4.39E+06 |
| 1/20 | -203. | -1.76E+05 | 2.84E+05 | -1.72E+05 | 2.85E+05 | -3.43E+06 | 5.71E+06 |
| 1/15 | -61.1 | -2.44E+05 | 4.12E+05 | -2.39E+05 | 4.13E+05 | -3.59E+06 | 6.19E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

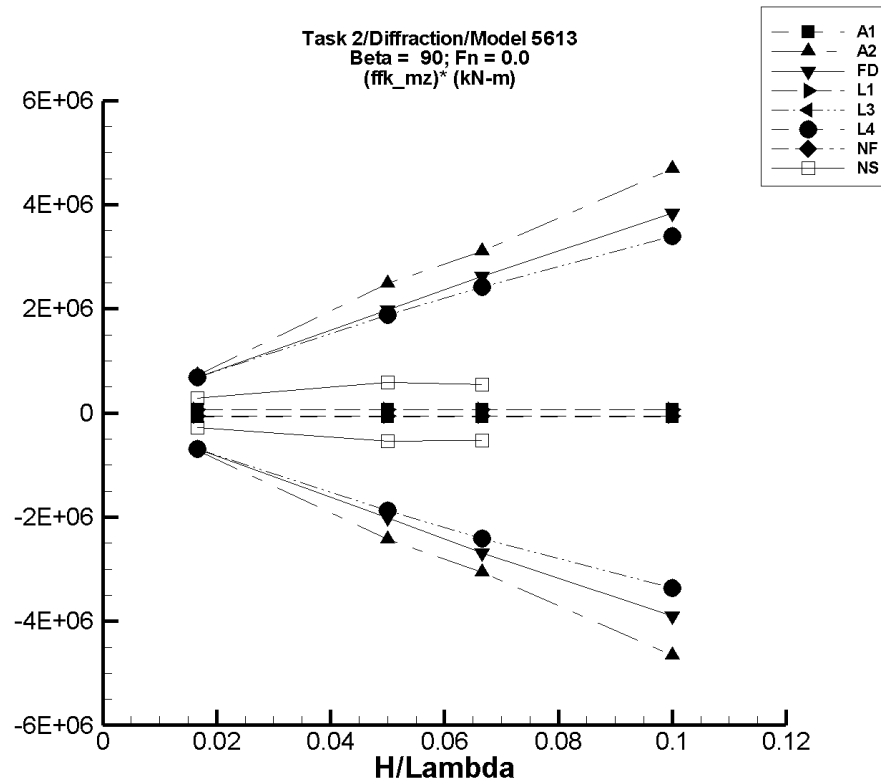


Figure Q-166. Minimum and maximum of filtered $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1321. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 0.941 | -1.17E+03 | 1.17E+03 | -1.17E+03 | 1.16E+03 | -7.04E+04 | 6.95E+04 |
| 1/20 | 2.83 | -3.52E+03 | 3.52E+03 | -3.52E+03 | 3.49E+03 | -7.05E+04 | 6.97E+04 |
| 1/15 | 3.78 | -4.70E+03 | 4.70E+03 | -4.70E+03 | 4.65E+03 | -7.06E+04 | 6.98E+04 |
| 1/10 | 5.67 | -7.06E+03 | 7.05E+03 | -7.06E+03 | 6.98E+03 | -7.06E+04 | 6.98E+04 |

Table Q-1322. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -30.8 | -1.31E+04 | 1.30E+04 | -1.21E+04 | 1.21E+04 | -7.26E+05 | 7.27E+05 |
| 1/20 | -2.18E+03 | -1.99E+05 | 1.34E+05 | -1.23E+05 | 1.22E+05 | -2.42E+06 | 2.49E+06 |
| 1/15 | -1.56E+03 | -2.18E+05 | 2.17E+05 | -2.06E+05 | 2.06E+05 | -3.07E+06 | 3.11E+06 |
| 1/10 | -1.16E+03 | -5.05E+05 | 5.06E+05 | -4.67E+05 | 4.68E+05 | -4.66E+06 | 4.69E+06 |

Table Q–1323. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 44.3 | -1.20E+04 | 1.20E+04 | -1.15E+04 | 1.15E+04 | -6.95E+05 | 6.89E+05 |
| 1/20 | 949. | -1.04E+05 | 1.04E+05 | -1.00E+05 | 9.98E+04 | -2.02E+06 | 1.98E+06 |
| 1/15 | 2.01E+03 | -1.85E+05 | 1.85E+05 | -1.77E+05 | 1.77E+05 | -2.69E+06 | 2.62E+06 |
| 1/10 | 3.10E+03 | -4.14E+05 | 4.14E+05 | -3.87E+05 | 3.87E+05 | -3.90E+06 | 3.84E+06 |

Table Q–1324. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 0.274 | -1.07E+03 | 1.07E+03 | -1.08E+03 | 1.07E+03 | -6.45E+04 | 6.40E+04 |
| 1/20 | 0.822 | -3.21E+03 | 3.21E+03 | -3.23E+03 | 3.20E+03 | -6.45E+04 | 6.40E+04 |
| 1/15 | 1.10 | -4.29E+03 | 4.29E+03 | -4.30E+03 | 4.27E+03 | -6.45E+04 | 6.40E+04 |
| 1/10 | 1.65 | -6.43E+03 | 6.43E+03 | -6.45E+03 | 6.41E+03 | -6.45E+04 | 6.40E+04 |

Table Q-1325. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.21 | -1.17E+04 | 1.17E+04 | -1.15E+04 | 1.15E+04 | -6.89E+05 | 6.90E+05 |
| 1/20 | 12.8 | -9.54E+04 | 9.54E+04 | -9.39E+04 | 9.39E+04 | -1.88E+06 | 1.88E+06 |
| 1/15 | 61.5 | -1.64E+05 | 1.64E+05 | -1.61E+05 | 1.61E+05 | -2.42E+06 | 2.41E+06 |
| 1/10 | -1.42E+03 | -3.45E+05 | 3.45E+05 | -3.38E+05 | 3.38E+05 | -3.37E+06 | 3.40E+06 |

Table Q-1326. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.21 | -1.17E+04 | 1.17E+04 | -1.15E+04 | 1.15E+04 | -6.89E+05 | 6.90E+05 |
| 1/20 | 12.8 | -9.54E+04 | 9.54E+04 | -9.39E+04 | 9.39E+04 | -1.88E+06 | 1.88E+06 |
| 1/15 | 61.5 | -1.64E+05 | 1.64E+05 | -1.61E+05 | 1.61E+05 | -2.42E+06 | 2.41E+06 |
| 1/10 | -1.42E+03 | -3.45E+05 | 3.45E+05 | -3.38E+05 | 3.38E+05 | -3.37E+06 | 3.40E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1327. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1328. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -29.3 | -4.80E+03 | 4.82E+03 | -4.65E+03 | 4.65E+03 | -2.77E+05 | 2.81E+05 |
| 1/20 | -969. | -2.92E+04 | 2.96E+04 | -2.77E+04 | 2.82E+04 | -5.35E+05 | 5.83E+05 |
| 1/15 | -1.29E+03 | -3.70E+04 | 3.65E+04 | -3.62E+04 | 3.56E+04 | -5.23E+05 | 5.53E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

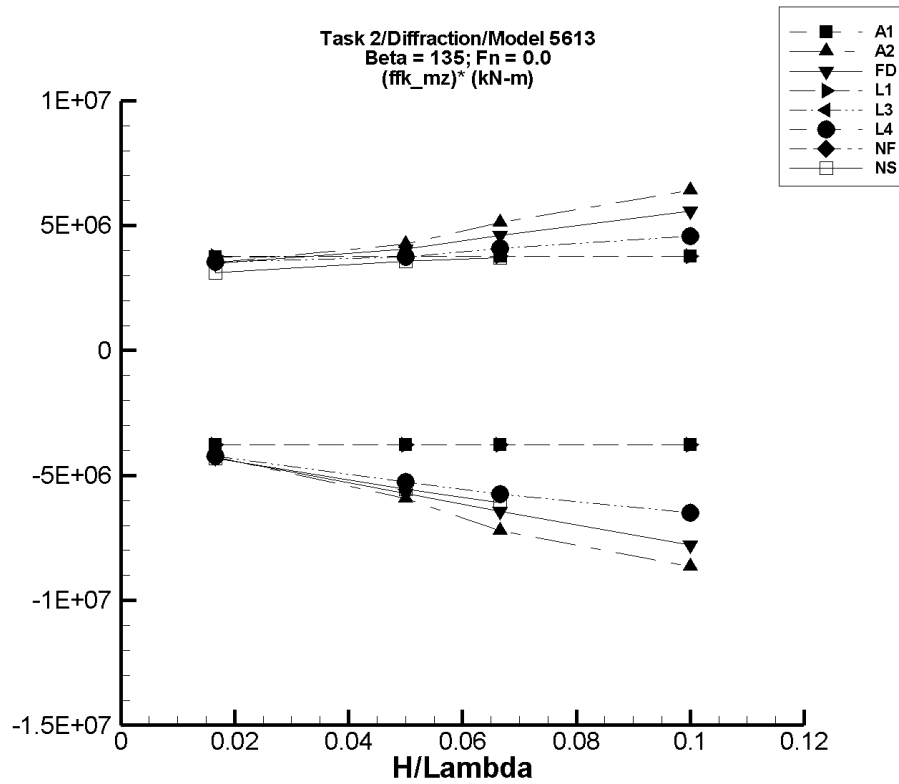


Figure Q-167. Minimum and maximum of filtered $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1329. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 42.5 | -6.33E+04 | 6.32E+04 | -6.26E+04 | 6.26E+04 | -3.76E+06 | 3.75E+06 |
| 1/20 | 128. | -1.90E+05 | 1.90E+05 | -1.88E+05 | 1.88E+05 | -3.77E+06 | 3.76E+06 |
| 1/15 | 171. | -2.54E+05 | 2.54E+05 | -2.51E+05 | 2.51E+05 | -3.77E+06 | 3.77E+06 |
| 1/10 | 256. | -3.81E+05 | 3.81E+05 | -3.77E+05 | 3.77E+05 | -3.77E+06 | 3.77E+06 |

Table Q-1330. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.72 | -7.16E+04 | 5.96E+04 | -7.10E+04 | 5.85E+04 | -4.26E+06 | 3.51E+06 |
| 1/20 | -1.81E+03 | -3.04E+05 | 2.17E+05 | -2.98E+05 | 2.11E+05 | -5.93E+06 | 4.25E+06 |
| 1/15 | -7.10E+03 | -6.95E+05 | 3.41E+05 | -4.88E+05 | 3.34E+05 | -7.22E+06 | 5.12E+06 |
| 1/10 | -2.71E+03 | -8.78E+05 | 6.53E+05 | -8.68E+05 | 6.39E+05 | -8.65E+06 | 6.42E+06 |

Table Q–1331. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -11.3 | -7.27E+04 | 5.86E+04 | -7.17E+04 | 5.81E+04 | -4.30E+06 | 3.48E+06 |
| 1/20 | -603. | -2.91E+05 | 2.07E+05 | -2.86E+05 | 2.03E+05 | -5.72E+06 | 4.07E+06 |
| 1/15 | -1.63E+03 | -4.38E+05 | 3.12E+05 | -4.31E+05 | 3.05E+05 | -6.44E+06 | 4.60E+06 |
| 1/10 | -2.47E+03 | -7.92E+05 | 5.65E+05 | -7.81E+05 | 5.55E+05 | -7.79E+06 | 5.57E+06 |

Table Q–1332. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.04 | -6.31E+04 | 6.31E+04 | -6.29E+04 | 6.29E+04 | -3.77E+06 | 3.77E+06 |
| 1/20 | -15.1 | -1.89E+05 | 1.89E+05 | -1.89E+05 | 1.89E+05 | -3.77E+06 | 3.77E+06 |
| 1/15 | -20.2 | -2.52E+05 | 2.52E+05 | -2.51E+05 | 2.51E+05 | -3.77E+06 | 3.77E+06 |
| 1/10 | -30.2 | -3.79E+05 | 3.79E+05 | -3.77E+05 | 3.77E+05 | -3.77E+06 | 3.77E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1333. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -43.7 | -7.07E+04 | 5.92E+04 | -7.03E+04 | 5.90E+04 | -4.22E+06 | 3.54E+06 |
| 1/20 | -385. | -2.65E+05 | 1.88E+05 | -2.63E+05 | 1.87E+05 | -5.26E+06 | 3.76E+06 |
| 1/15 | -480. | -3.86E+05 | 2.73E+05 | -3.84E+05 | 2.71E+05 | -5.75E+06 | 4.07E+06 |
| 1/10 | -853. | -6.55E+05 | 4.61E+05 | -6.52E+05 | 4.58E+05 | -6.51E+06 | 4.58E+06 |

Table Q-1334. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -43.7 | -7.07E+04 | 5.92E+04 | -7.03E+04 | 5.90E+04 | -4.22E+06 | 3.54E+06 |
| 1/20 | -385. | -2.65E+05 | 1.88E+05 | -2.63E+05 | 1.87E+05 | -5.26E+06 | 3.76E+06 |
| 1/15 | -480. | -3.86E+05 | 2.73E+05 | -3.84E+05 | 2.71E+05 | -5.75E+06 | 4.07E+06 |
| 1/10 | -853. | -6.55E+05 | 4.61E+05 | -6.52E+05 | 4.58E+05 | -6.51E+06 | 4.58E+06 |

Table Q-1335. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1336. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -11.2 | -7.29E+04 | 5.21E+04 | -7.18E+04 | 5.17E+04 | -4.31E+06 | 3.11E+06 |
| 1/20 | -894. | -2.84E+05 | 1.83E+05 | -2.78E+05 | 1.78E+05 | -5.54E+06 | 3.58E+06 |
| 1/15 | -732. | -4.12E+05 | 2.52E+05 | -4.07E+05 | 2.47E+05 | -6.09E+06 | 3.71E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

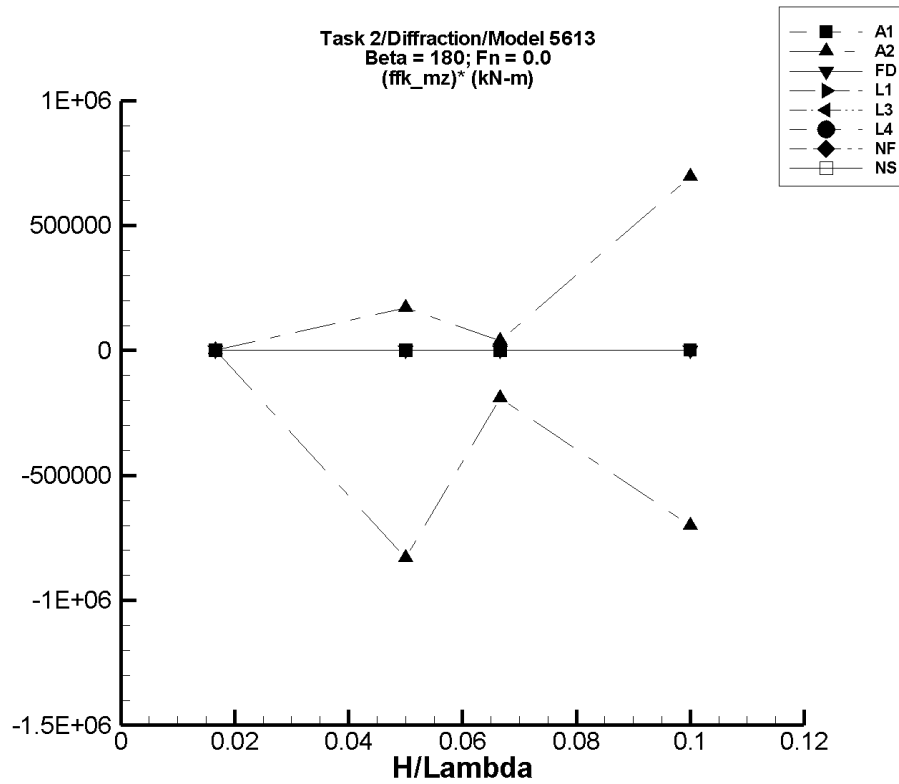


Figure Q-168. Minimum and maximum of filtered $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1337. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.33E-05 | -0.164 | 0.164 | -0.162 | 0.162 | -9.71 | 9.72 |
| 1/20 | -1.60E-04 | -0.492 | 0.492 | -0.487 | 0.487 | -9.74 | 9.75 |
| 1/15 | -2.14E-04 | -0.657 | 0.657 | -0.650 | 0.650 | -9.75 | 9.76 |
| 1/10 | -3.21E-04 | -0.985 | 0.986 | -0.975 | 0.976 | -9.75 | 9.76 |

Table Q–1338. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.78E-04 | -3.75E-03 | 1.43E-03 | -2.52E-03 | 2.86E-04 | -0.110 | 5.79E-02 |
| 1/20 | -4.02E+03 | -3.43E+05 | 1.07E+02 | -4.56E+04 | 4.46E+03 | -8.31E+05 | 1.69E+05 |
| 1/15 | -305. | -9.78E+04 | 1.76E+04 | -1.30E+04 | 2.34E+03 | -1.91E+05 | 3.97E+04 |
| 1/10 | -221. | -5.16E+05 | 5.08E+05 | -7.03E+04 | 6.93E+04 | -7.01E+05 | 6.95E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1339. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.57E-04 | -1.49E-02 | 1.56E-02 | -4.47E-03 | 3.44E-03 | -0.241 | 0.234 |
| 1/20 | -8.66E-03 | -0.110 | 2.86E-02 | -4.12E-02 | 2.01E-02 | -0.650 | 0.575 |
| 1/15 | 8.26E-04 | -4.87E-02 | 6.80E-02 | -2.83E-02 | 3.35E-02 | -0.437 | 0.490 |
| 1/10 | -1.52E-03 | -8.58E-02 | 0.134 | -2.15E-02 | 2.56E-02 | -0.200 | 0.271 |

Table Q-1340. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1341. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1342. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1343. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1344. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|----------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.31E-03 | -6.68E-02 | 4.12E-02 | -1.72E-02 | 1.20E-02 | -0.834 | 0.916 |
| 1/20 | -7.01E-03 | -0.157 | 0.142 | -2.87E-02 | 1.83E-02 | -0.433 | 0.505 |
| 1/15 | 5.18E-03 | -0.222 | 0.200 | -3.78E-02 | 3.84E-02 | -0.645 | 0.498 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

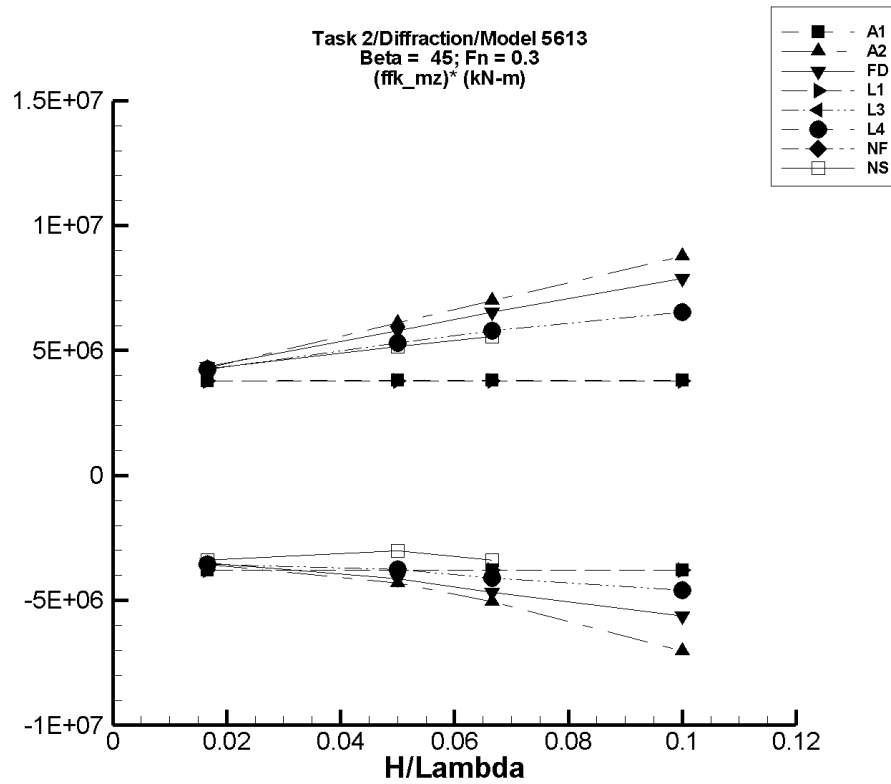


Figure Q-169. Minimum and maximum of filtered $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1345. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 14.3 | -6.33E+04 | 6.33E+04 | -6.31E+04 | 6.31E+04 | -3.79E+06 | 3.79E+06 |
| 1/20 | 43.1 | -1.90E+05 | 1.90E+05 | -1.90E+05 | 1.90E+05 | -3.80E+06 | 3.80E+06 |
| 1/15 | 57.5 | -2.54E+05 | 2.54E+05 | -2.54E+05 | 2.54E+05 | -3.80E+06 | 3.80E+06 |
| 1/10 | 86.2 | -3.81E+05 | 3.81E+05 | -3.80E+05 | 3.80E+05 | -3.80E+06 | 3.80E+06 |

Table Q-1346. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 46.1 | -5.97E+04 | 7.16E+04 | -5.94E+04 | 7.18E+04 | -3.57E+06 | 4.30E+06 |
| 1/20 | -13.8 | -2.18E+05 | 5.61E+05 | -2.15E+05 | 3.06E+05 | -4.30E+06 | 6.11E+06 |
| 1/15 | 652. | -3.92E+05 | 4.67E+05 | -3.37E+05 | 4.67E+05 | -5.06E+06 | 7.00E+06 |
| 1/10 | 4.16E+03 | -1.14E+06 | 1.53E+06 | -7.00E+05 | 8.82E+05 | -7.04E+06 | 8.77E+06 |

Table Q–1347. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 45.2 | -5.86E+04 | 7.27E+04 | -5.85E+04 | 7.24E+04 | -3.51E+06 | 4.34E+06 |
| 1/20 | 354. | -2.07E+05 | 2.91E+05 | -2.06E+05 | 2.90E+05 | -4.13E+06 | 5.79E+06 |
| 1/15 | 740. | -3.12E+05 | 4.38E+05 | -3.11E+05 | 4.36E+05 | -4.67E+06 | 6.54E+06 |
| 1/10 | 1.18E+03 | -5.66E+05 | 7.92E+05 | -5.63E+05 | 7.89E+05 | -5.64E+06 | 7.88E+06 |

Table Q–1348. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 9.34 | -6.31E+04 | 6.31E+04 | -6.31E+04 | 6.32E+04 | -3.78E+06 | 3.79E+06 |
| 1/20 | 28.0 | -1.89E+05 | 1.89E+05 | -1.89E+05 | 1.90E+05 | -3.78E+06 | 3.79E+06 |
| 1/15 | 37.4 | -2.52E+05 | 2.52E+05 | -2.52E+05 | 2.53E+05 | -3.78E+06 | 3.79E+06 |
| 1/10 | 56.0 | -3.79E+05 | 3.79E+05 | -3.78E+05 | 3.79E+05 | -3.78E+06 | 3.79E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1349. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -12.0 | -5.92E+04 | 7.07E+04 | -5.91E+04 | 7.06E+04 | -3.55E+06 | 4.24E+06 |
| 1/20 | -75.1 | -1.88E+05 | 2.65E+05 | -1.88E+05 | 2.64E+05 | -3.76E+06 | 5.29E+06 |
| 1/15 | 93.8 | -2.73E+05 | 3.86E+05 | -2.73E+05 | 3.86E+05 | -4.09E+06 | 5.79E+06 |
| 1/10 | -521. | -4.61E+05 | 6.55E+05 | -4.60E+05 | 6.54E+05 | -4.59E+06 | 6.54E+06 |

Table Q–1350. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -12.0 | -5.92E+04 | 7.07E+04 | -5.91E+04 | 7.06E+04 | -3.55E+06 | 4.24E+06 |
| 1/20 | -75.1 | -1.88E+05 | 2.65E+05 | -1.88E+05 | 2.64E+05 | -3.76E+06 | 5.29E+06 |
| 1/15 | 93.8 | -2.73E+05 | 3.86E+05 | -2.73E+05 | 3.86E+05 | -4.09E+06 | 5.79E+06 |
| 1/10 | -521. | -4.61E+05 | 6.55E+05 | -4.60E+05 | 6.54E+05 | -4.59E+06 | 6.54E+06 |

Table Q–1351. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1352. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -38.3 | -5.72E+04 | 7.07E+04 | -5.67E+04 | 7.11E+04 | -3.40E+06 | 4.27E+06 |
| 1/20 | -379. | -1.54E+05 | 2.57E+05 | -1.51E+05 | 2.58E+05 | -3.01E+06 | 5.17E+06 |
| 1/15 | -665. | -2.29E+05 | 3.68E+05 | -2.26E+05 | 3.70E+05 | -3.38E+06 | 5.57E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

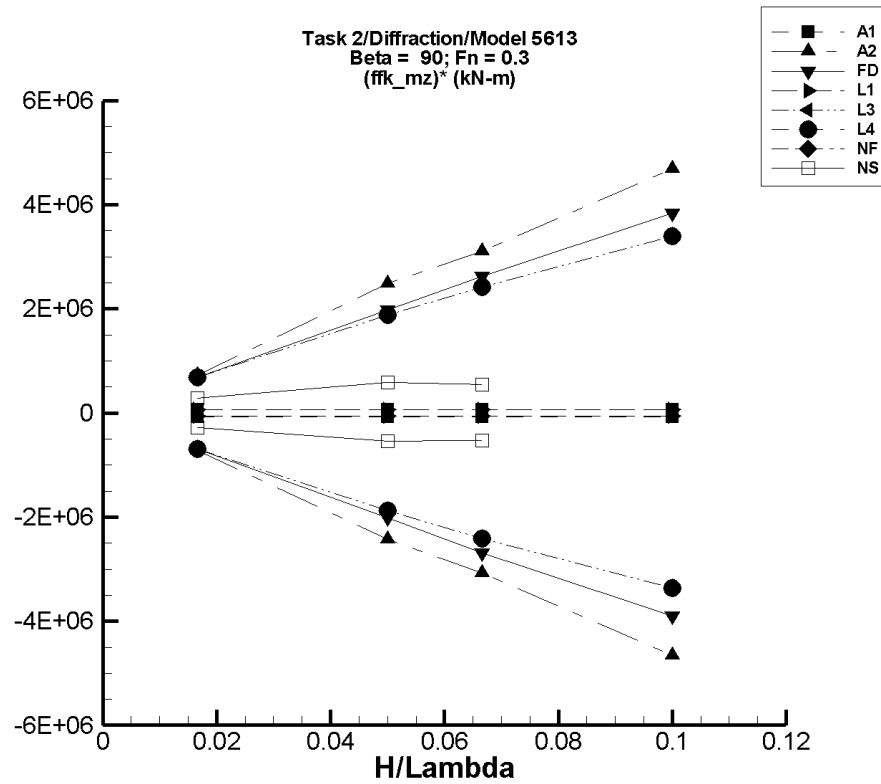


Figure Q-170. Minimum and maximum of filtered $(M_z^{fk} - \langle M_z^{fk} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1353. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 0.951 | -1.18E+03 | 1.18E+03 | -1.18E+03 | 1.17E+03 | -7.11E+04 | 7.03E+04 |
| 1/20 | 2.86 | -3.56E+03 | 3.56E+03 | -3.56E+03 | 3.52E+03 | -7.13E+04 | 7.04E+04 |
| 1/15 | 3.82 | -4.76E+03 | 4.75E+03 | -4.76E+03 | 4.71E+03 | -7.14E+04 | 7.05E+04 |
| 1/10 | 5.73 | -7.13E+03 | 7.13E+03 | -7.13E+03 | 7.06E+03 | -7.14E+04 | 7.05E+04 |

Table Q-1354. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -30.8 | -1.31E+04 | 1.30E+04 | -1.21E+04 | 1.21E+04 | -7.26E+05 | 7.27E+05 |
| 1/20 | -2.18E+03 | -1.99E+05 | 1.34E+05 | -1.23E+05 | 1.22E+05 | -2.42E+06 | 2.49E+06 |
| 1/15 | -1.23E+03 | -2.18E+05 | 2.17E+05 | -2.06E+05 | 2.06E+05 | -3.07E+06 | 3.10E+06 |
| 1/10 | -1.16E+03 | -5.05E+05 | 5.06E+05 | -4.67E+05 | 4.68E+05 | -4.66E+06 | 4.69E+06 |

Table Q–1355. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 44.3 | -1.20E+04 | 1.20E+04 | -1.15E+04 | 1.15E+04 | -6.95E+05 | 6.89E+05 |
| 1/20 | 949. | -1.04E+05 | 1.04E+05 | -1.00E+05 | 9.98E+04 | -2.02E+06 | 1.98E+06 |
| 1/15 | 2.01E+03 | -1.85E+05 | 1.85E+05 | -1.77E+05 | 1.77E+05 | -2.69E+06 | 2.62E+06 |
| 1/10 | 3.10E+03 | -4.14E+05 | 4.14E+05 | -3.87E+05 | 3.87E+05 | -3.90E+06 | 3.84E+06 |

Table Q–1356. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 0.263 | -1.07E+03 | 1.07E+03 | -1.08E+03 | 1.07E+03 | -6.45E+04 | 6.40E+04 |
| 1/20 | 0.801 | -3.21E+03 | 3.21E+03 | -3.23E+03 | 3.20E+03 | -6.45E+04 | 6.40E+04 |
| 1/15 | 1.05 | -4.29E+03 | 4.29E+03 | -4.30E+03 | 4.27E+03 | -6.45E+04 | 6.40E+04 |
| 1/10 | 1.60 | -6.43E+03 | 6.43E+03 | -6.45E+03 | 6.41E+03 | -6.45E+04 | 6.40E+04 |

Table Q-1357. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.22 | -1.17E+04 | 1.17E+04 | -1.15E+04 | 1.15E+04 | -6.89E+05 | 6.90E+05 |
| 1/20 | 12.8 | -9.54E+04 | 9.54E+04 | -9.39E+04 | 9.39E+04 | -1.88E+06 | 1.88E+06 |
| 1/15 | 61.5 | -1.64E+05 | 1.64E+05 | -1.61E+05 | 1.61E+05 | -2.42E+06 | 2.41E+06 |
| 1/10 | -1.42E+03 | -3.45E+05 | 3.45E+05 | -3.38E+05 | 3.38E+05 | -3.37E+06 | 3.40E+06 |

Table Q-1358. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.22 | -1.17E+04 | 1.17E+04 | -1.15E+04 | 1.15E+04 | -6.89E+05 | 6.90E+05 |
| 1/20 | 12.8 | -9.54E+04 | 9.54E+04 | -9.39E+04 | 9.39E+04 | -1.88E+06 | 1.88E+06 |
| 1/15 | 61.5 | -1.64E+05 | 1.64E+05 | -1.61E+05 | 1.61E+05 | -2.42E+06 | 2.41E+06 |
| 1/10 | -1.42E+03 | -3.45E+05 | 3.45E+05 | -3.38E+05 | 3.38E+05 | -3.37E+06 | 3.40E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1359. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1360. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -29.3 | -4.80E+03 | 4.82E+03 | -4.65E+03 | 4.65E+03 | -2.77E+05 | 2.81E+05 |
| 1/20 | -969. | -2.92E+04 | 2.96E+04 | -2.77E+04 | 2.82E+04 | -5.35E+05 | 5.83E+05 |
| 1/15 | -1.29E+03 | -3.70E+04 | 3.65E+04 | -3.62E+04 | 3.56E+04 | -5.23E+05 | 5.53E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

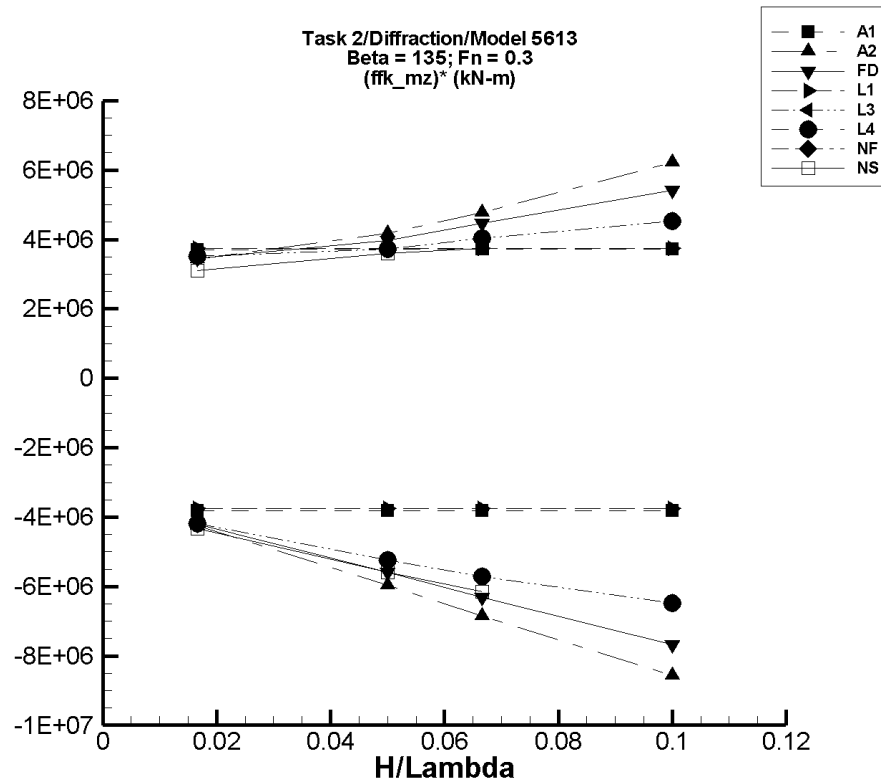


Figure Q-171. Minimum and maximum of filtered $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1361. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 27.5 | -6.32E+04 | 6.33E+04 | -6.35E+04 | 6.18E+04 | -3.81E+06 | 3.70E+06 |
| 1/20 | 82.6 | -1.90E+05 | 1.90E+05 | -1.91E+05 | 1.86E+05 | -3.82E+06 | 3.71E+06 |
| 1/15 | 110. | -2.54E+05 | 2.54E+05 | -2.55E+05 | 2.48E+05 | -3.82E+06 | 3.72E+06 |
| 1/10 | 165. | -3.81E+05 | 3.81E+05 | -3.82E+05 | 3.72E+05 | -3.82E+06 | 3.72E+06 |

Table Q-1362. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 34.9 | -7.16E+04 | 5.96E+04 | -7.09E+04 | 5.73E+04 | -4.26E+06 | 3.43E+06 |
| 1/20 | -325. | -3.04E+05 | 2.17E+05 | -2.99E+05 | 2.09E+05 | -5.97E+06 | 4.18E+06 |
| 1/15 | -1.21E+03 | -4.68E+05 | 3.39E+05 | -4.58E+05 | 3.17E+05 | -6.85E+06 | 4.78E+06 |
| 1/10 | -2.47E+03 | -8.79E+05 | 6.55E+05 | -8.58E+05 | 6.20E+05 | -8.56E+06 | 6.23E+06 |

Table Q–1363. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -45.0 | -7.26E+04 | 5.86E+04 | -7.03E+04 | 5.73E+04 | -4.22E+06 | 3.44E+06 |
| 1/20 | -929. | -2.91E+05 | 2.07E+05 | -2.81E+05 | 1.97E+05 | -5.60E+06 | 3.96E+06 |
| 1/15 | -1.62E+03 | -4.38E+05 | 3.12E+05 | -4.22E+05 | 2.96E+05 | -6.31E+06 | 4.46E+06 |
| 1/10 | -2.43E+03 | -7.91E+05 | 5.66E+05 | -7.70E+05 | 5.39E+05 | -7.67E+06 | 5.41E+06 |

Table Q–1364. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.57 | -6.31E+04 | 6.31E+04 | -6.25E+04 | 6.26E+04 | -3.75E+06 | 3.75E+06 |
| 1/20 | 22.7 | -1.89E+05 | 1.89E+05 | -1.88E+05 | 1.88E+05 | -3.75E+06 | 3.75E+06 |
| 1/15 | 30.3 | -2.52E+05 | 2.52E+05 | -2.50E+05 | 2.50E+05 | -3.75E+06 | 3.75E+06 |
| 1/10 | 45.4 | -3.79E+05 | 3.79E+05 | -3.75E+05 | 3.75E+05 | -3.75E+06 | 3.75E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1365. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 35.7 | -7.07E+04 | 5.92E+04 | -6.99E+04 | 5.87E+04 | -4.20E+06 | 3.52E+06 |
| 1/20 | -12.2 | -2.65E+05 | 1.88E+05 | -2.62E+05 | 1.86E+05 | -5.23E+06 | 3.72E+06 |
| 1/15 | 4.62 | -3.86E+05 | 2.73E+05 | -3.81E+05 | 2.69E+05 | -5.72E+06 | 4.03E+06 |
| 1/10 | 26.7 | -6.54E+05 | 4.60E+05 | -6.48E+05 | 4.53E+05 | -6.48E+06 | 4.53E+06 |

Table Q–1366. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 35.7 | -7.07E+04 | 5.92E+04 | -6.99E+04 | 5.87E+04 | -4.20E+06 | 3.52E+06 |
| 1/20 | -12.2 | -2.65E+05 | 1.88E+05 | -2.62E+05 | 1.86E+05 | -5.23E+06 | 3.72E+06 |
| 1/15 | 4.62 | -3.86E+05 | 2.73E+05 | -3.81E+05 | 2.69E+05 | -5.72E+06 | 4.03E+06 |
| 1/10 | 26.7 | -6.54E+05 | 4.60E+05 | -6.48E+05 | 4.53E+05 | -6.48E+06 | 4.53E+06 |

Table Q–1367. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1368. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|-----------------------------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ Mean (kN-m) | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -37.3 | -7.32E+04 | 5.19E+04 | -7.21E+04 | 5.16E+04 | -4.33E+06 | 3.10E+06 |
| 1/20 | -947. | -2.86E+05 | 1.84E+05 | -2.81E+05 | 1.79E+05 | -5.60E+06 | 3.61E+06 |
| 1/15 | -789. | -4.17E+05 | 2.54E+05 | -4.11E+05 | 2.49E+05 | -6.16E+06 | 3.75E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

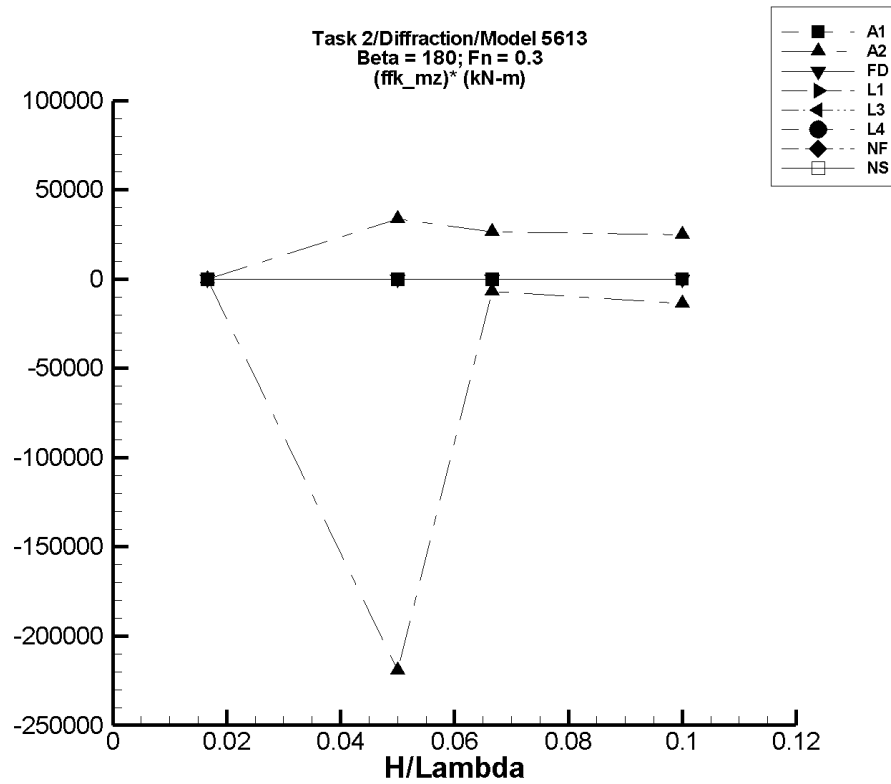


Figure Q-172. Minimum and maximum of filtered $(M_z^{\text{fk}} - \langle M_z^{\text{fk}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1369. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.59E-05 | -0.149 | 0.149 | -0.144 | 0.144 | -8.65 | 8.66 |
| 1/20 | -1.68E-04 | -0.448 | 0.447 | -0.434 | 0.434 | -8.67 | 8.68 |
| 1/15 | -2.24E-04 | -0.598 | 0.597 | -0.579 | 0.579 | -8.69 | 8.69 |
| 1/10 | -3.37E-04 | -0.897 | 0.896 | -0.869 | 0.869 | -8.69 | 8.69 |

Table Q-1370. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{\text{fk}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------|------------------------------|----------------|----------------------------|----------------|--------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{fk}} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{\text{fk}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.53E-04 | -4.79E-03 | 1.06E-03 | -2.01E-03 | 1.40E-04 | -7.52E-02 | 5.36E-02 |
| 1/20 | -682. | -8.74E+04 | 1.30E+02 | -1.17E+04 | 1.00E+03 | -2.19E+05 | 3.36E+04 |
| 1/15 | 277. | -52.8 | 1.53E+04 | -174. | 2.04E+03 | -6.77E+03 | 2.64E+04 |
| 1/10 | 324. | -6.30E+03 | 2.07E+04 | -1.03E+03 | 2.82E+03 | -1.36E+04 | 2.50E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1371. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.03E-03 | -0.172 | 0.165 | -6.06E-02 | 6.42E-02 | -3.28 | 4.22 |
| 1/20 | -2.48E-03 | -0.411 | 0.470 | -0.126 | 0.253 | -2.47 | 5.11 |
| 1/15 | 6.39E-04 | -0.716 | 0.817 | -0.257 | 0.312 | -3.86 | 4.66 |
| 1/10 | 0.139 | -2.15 | 2.94 | -0.906 | 1.49 | -10.5 | 13.5 |

Table Q–1372. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1373. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1374. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1375. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1376. Minimum and Maximum of Variables M_z^{fk} and $(M_z^{fk})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------|-----------------------|----------------|---------------------|----------------|-------------------------|----------------|
| (H/λ) | $\langle M_z^{fk} \rangle$ | Unfiltered M_z^{fk} | | Filtered M_z^{fk} | | Filtered $(M_z^{fk})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.49E-03 | -6.11E-02 | 6.45E-02 | -1.48E-02 | 8.32E-03 | -0.681 | 0.709 |
| 1/20 | -7.86E-03 | -0.164 | 0.143 | -3.74E-02 | 1.29E-02 | -0.590 | 0.414 |
| 1/15 | 5.66E-03 | -0.446 | 0.246 | -4.01E-02 | 7.03E-02 | -0.687 | 0.969 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

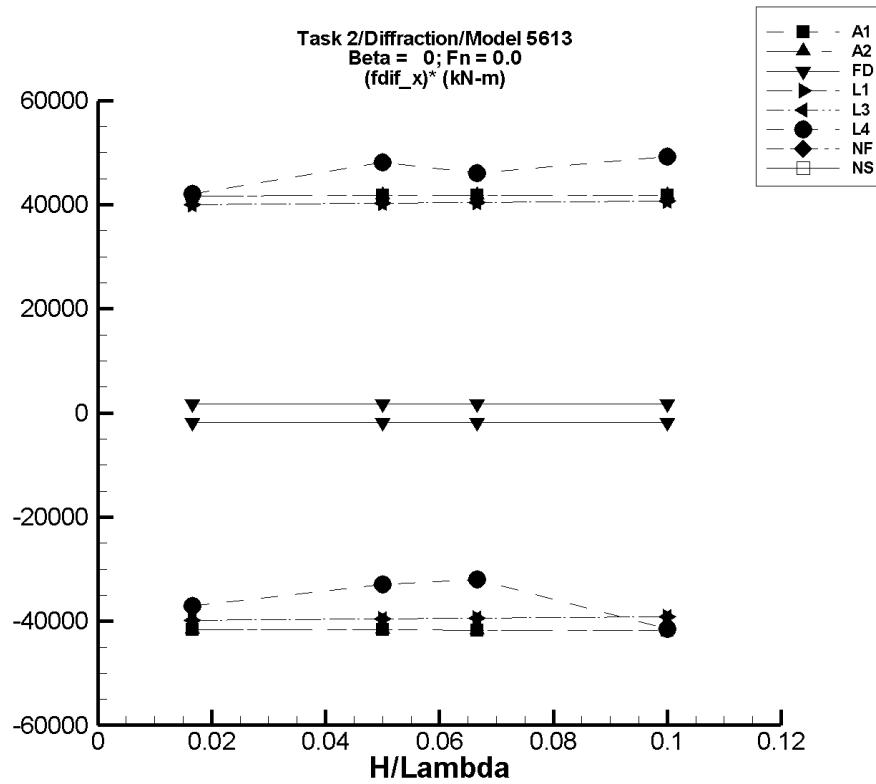


Figure Q-173. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1377. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.547 | -702. | 701. | -694. | 694. | -4.16E+04 | 4.17E+04 |
| 1/20 | -1.65 | -2.11E+03 | 2.11E+03 | -2.09E+03 | 2.09E+03 | -4.17E+04 | 4.18E+04 |
| 1/15 | -2.20 | -2.82E+03 | 2.81E+03 | -2.78E+03 | 2.79E+03 | -4.17E+04 | 4.18E+04 |
| 1/10 | -3.30 | -4.23E+03 | 4.22E+03 | -4.18E+03 | 4.18E+03 | -4.17E+04 | 4.18E+04 |

Table Q-1378. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.547 | -702. | 701. | -694. | 694. | -4.16E+04 | 4.17E+04 |
| 1/20 | -1.65 | -2.11E+03 | 2.11E+03 | -2.09E+03 | 2.09E+03 | -4.17E+04 | 4.18E+04 |
| 1/15 | -2.20 | -2.82E+03 | 2.81E+03 | -2.78E+03 | 2.79E+03 | -4.17E+04 | 4.18E+04 |
| 1/10 | -3.30 | -4.23E+03 | 4.22E+03 | -4.18E+03 | 4.18E+03 | -4.17E+04 | 4.18E+04 |

Table Q-1379. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.03E-02 | -29.8 | 29.8 | -29.5 | 29.9 | -1.77E+03 | 1.79E+03 |
| 1/20 | -3.09E-02 | -89.5 | 89.5 | -88.6 | 89.6 | -1.77E+03 | 1.79E+03 |
| 1/15 | -4.13E-02 | -119. | 119. | -118. | 119. | -1.77E+03 | 1.79E+03 |
| 1/10 | -6.19E-02 | -179. | 179. | -177. | 179. | -1.77E+03 | 1.79E+03 |

Table Q–1380. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.15 | -664. | 672. | -661. | 669. | -3.98E+04 | 4.00E+04 |
| 1/20 | 16.1 | -1.97E+03 | 2.04E+03 | -1.96E+03 | 2.03E+03 | -3.95E+04 | 4.03E+04 |
| 1/15 | 27.9 | -2.61E+03 | 2.73E+03 | -2.60E+03 | 2.72E+03 | -3.94E+04 | 4.04E+04 |
| 1/10 | 61.3 | -3.86E+03 | 4.15E+03 | -3.85E+03 | 4.13E+03 | -3.91E+04 | 4.07E+04 |

Table Q–1381. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.14 | -663. | 671. | -661. | 669. | -3.98E+04 | 4.00E+04 |
| 1/20 | 16.1 | -1.97E+03 | 2.04E+03 | -1.96E+03 | 2.03E+03 | -3.95E+04 | 4.03E+04 |
| 1/15 | 27.9 | -2.61E+03 | 2.73E+03 | -2.60E+03 | 2.72E+03 | -3.94E+04 | 4.04E+04 |
| 1/10 | 61.2 | -3.86E+03 | 4.15E+03 | -3.85E+03 | 4.13E+03 | -3.91E+04 | 4.07E+04 |

Table Q–1382. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 52.7 | -568. | 771. | -565. | 753. | -3.71E+04 | 4.20E+04 |
| 1/20 | 456. | -1.21E+03 | 3.11E+03 | -1.19E+03 | 2.86E+03 | -3.29E+04 | 4.81E+04 |
| 1/15 | 750. | -1.41E+03 | 4.14E+03 | -1.38E+03 | 3.82E+03 | -3.19E+04 | 4.60E+04 |
| 1/10 | 1.23E+03 | -3.34E+03 | 6.54E+03 | -2.92E+03 | 6.16E+03 | -4.15E+04 | 4.93E+04 |

Table Q–1383. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1384. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

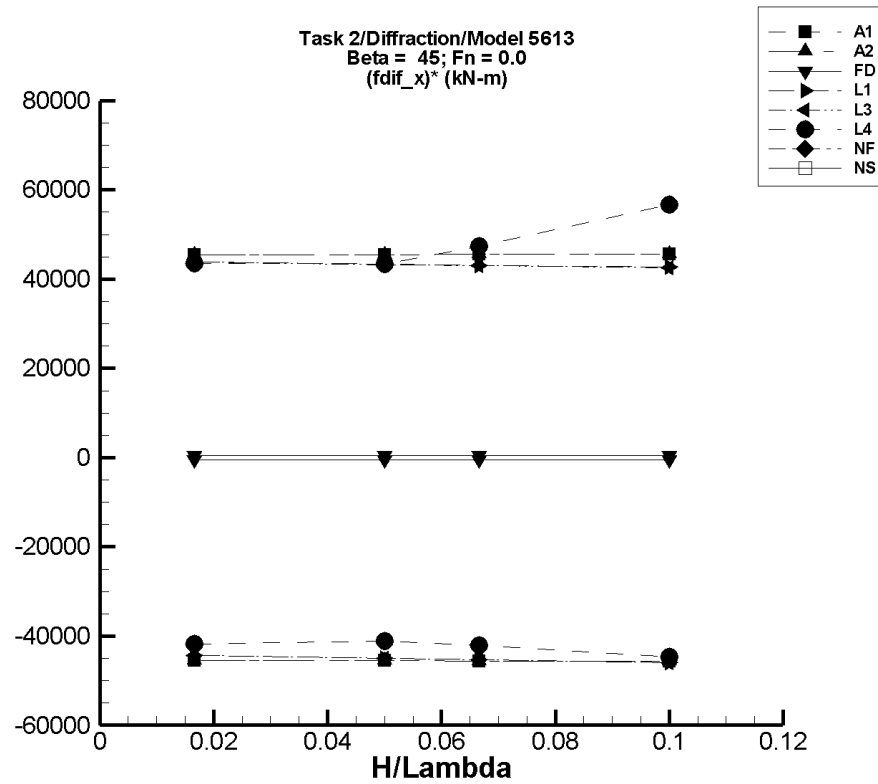


Figure Q-174. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1385. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.246 | -765. | 764. | -757. | 756. | -4.54E+04 | 4.54E+04 |
| 1/20 | -0.739 | -2.30E+03 | 2.30E+03 | -2.28E+03 | 2.27E+03 | -4.55E+04 | 4.55E+04 |
| 1/15 | -0.987 | -3.07E+03 | 3.07E+03 | -3.04E+03 | 3.04E+03 | -4.56E+04 | 4.56E+04 |
| 1/10 | -1.48 | -4.61E+03 | 4.60E+03 | -4.56E+03 | 4.55E+03 | -4.56E+04 | 4.56E+04 |

Table Q-1386. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.246 | -765. | 764. | -757. | 756. | -4.54E+04 | 4.54E+04 |
| 1/20 | -0.739 | -2.30E+03 | 2.30E+03 | -2.28E+03 | 2.27E+03 | -4.55E+04 | 4.55E+04 |
| 1/15 | -0.987 | -3.07E+03 | 3.07E+03 | -3.04E+03 | 3.04E+03 | -4.56E+04 | 4.56E+04 |
| 1/10 | -1.48 | -4.61E+03 | 4.60E+03 | -4.56E+03 | 4.55E+03 | -4.56E+04 | 4.56E+04 |

Table Q-1387. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 6.54E-04 | -7.24 | 7.24 | -7.18 | 7.17 | -431. | 430. |
| 1/20 | 1.96E-03 | -21.7 | 21.7 | -21.5 | 21.5 | -431. | 430. |
| 1/15 | 2.61E-03 | -29.0 | 29.0 | -28.7 | 28.7 | -431. | 430. |
| 1/10 | 3.92E-03 | -43.5 | 43.5 | -43.1 | 43.0 | -431. | 430. |

Table Q–1388. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------------|-----------------------------------------------|----------------------------|---------------------------------------------------|----------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.90 | -733. | 742. | -730. | 739. | -4.43E+04 | 4.38E+04 |
| 1/20 | 79.3 | -2.18E+03 | 2.25E+03 | -2.17E+03 | 2.25E+03 | -4.49E+04 | 4.33E+04 |
| 1/15 | 141. | -2.89E+03 | 3.02E+03 | -2.88E+03 | 3.01E+03 | -4.52E+04 | 4.31E+04 |
| 1/10 | 316. | -4.29E+03 | 4.60E+03 | -4.27E+03 | 4.59E+03 | -4.59E+04 | 4.27E+04 |

Table Q–1389. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|----------------------------|-----------------------------------------------|----------------------------|---------------------------------------------------|----------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 8.90 | -733. | 741. | -730. | 739. | -4.44E+04 | 4.38E+04 |
| 1/20 | 79.3 | -2.18E+03 | 2.25E+03 | -2.17E+03 | 2.24E+03 | -4.50E+04 | 4.33E+04 |
| 1/15 | 141. | -2.89E+03 | 3.02E+03 | -2.88E+03 | 3.01E+03 | -4.53E+04 | 4.30E+04 |
| 1/10 | 316. | -4.29E+03 | 4.59E+03 | -4.28E+03 | 4.58E+03 | -4.59E+04 | 4.26E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1390. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 58.7 | -643. | 795. | -636. | 783. | -4.17E+04 | 4.35E+04 |
| 1/20 | 495. | -1.61E+03 | 2.69E+03 | -1.56E+03 | 2.66E+03 | -4.11E+04 | 4.33E+04 |
| 1/15 | 765. | -2.11E+03 | 3.97E+03 | -2.04E+03 | 3.92E+03 | -4.20E+04 | 4.73E+04 |
| 1/10 | 1.17E+03 | -3.46E+03 | 6.94E+03 | -3.29E+03 | 6.83E+03 | -4.46E+04 | 5.67E+04 |

Table Q–1391. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1392. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

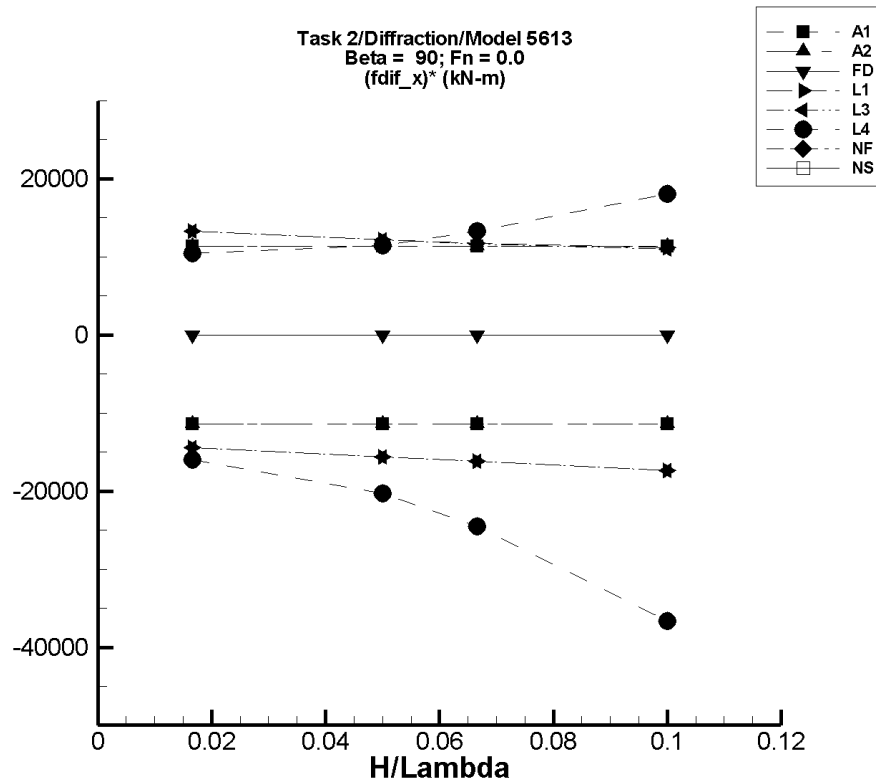


Figure Q-175. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1393. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.992 | -191. | 192. | -189. | 190. | -1.14E+04 | 1.13E+04 |
| 1/20 | 2.98 | -574. | 578. | -568. | 572. | -1.14E+04 | 1.14E+04 |
| 1/15 | 3.98 | -767. | 772. | -759. | 764. | -1.14E+04 | 1.14E+04 |
| 1/10 | 5.98 | -1.15E+03 | 1.16E+03 | -1.14E+03 | 1.15E+03 | -1.14E+04 | 1.14E+04 |

Table Q-1394. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.992 | -191. | 192. | -189. | 190. | -1.14E+04 | 1.13E+04 |
| 1/20 | 2.98 | -574. | 578. | -568. | 572. | -1.14E+04 | 1.14E+04 |
| 1/15 | 3.98 | -767. | 772. | -759. | 764. | -1.14E+04 | 1.14E+04 |
| 1/10 | 5.98 | -1.15E+03 | 1.16E+03 | -1.14E+03 | 1.15E+03 | -1.14E+04 | 1.14E+04 |

Table Q-1395. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.15E-09 | -3.54E-06 | 3.54E-06 | -3.50E-06 | 3.55E-06 | -2.10E-04 | 2.13E-04 |
| 1/20 | -3.44E-09 | -1.06E-05 | 1.06E-05 | -1.05E-05 | 1.06E-05 | -2.10E-04 | 2.13E-04 |
| 1/15 | -4.59E-09 | -1.42E-05 | 1.42E-05 | -1.40E-05 | 1.42E-05 | -2.10E-04 | 2.13E-04 |
| 1/10 | -6.88E-09 | -2.12E-05 | 2.12E-05 | -2.10E-05 | 2.13E-05 | -2.10E-04 | 2.13E-04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1396. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 11.6 | -230. | 233. | -229. | 232. | -1.44E+04 | 1.33E+04 |
| 1/20 | 103. | -680. | 714. | -676. | 712. | -1.56E+04 | 1.22E+04 |
| 1/15 | 184. | -900. | 966. | -895. | 964. | -1.62E+04 | 1.17E+04 |
| 1/10 | 413. | -1.33E+03 | 1.53E+03 | -1.32E+03 | 1.53E+03 | -1.74E+04 | 1.11E+04 |

Table Q-1397. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 11.6 | -230. | 233. | -229. | 232. | -1.44E+04 | 1.32E+04 |
| 1/20 | 103. | -680. | 712. | -677. | 710. | -1.56E+04 | 1.21E+04 |
| 1/15 | 184. | -901. | 961. | -896. | 960. | -1.62E+04 | 1.16E+04 |
| 1/10 | 413. | -1.33E+03 | 1.52E+03 | -1.32E+03 | 1.51E+03 | -1.74E+04 | 1.10E+04 |

Table Q-1398. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.61 | -275. | 197. | -273. | 168. | -1.60E+04 | 1.05E+04 |
| 1/20 | -57.5 | -1.19E+03 | 562. | -1.07E+03 | 513. | -2.03E+04 | 1.14E+04 |
| 1/15 | -187. | -1.96E+03 | 863. | -1.82E+03 | 702. | -2.46E+04 | 1.33E+04 |
| 1/10 | -564. | -4.61E+03 | 1.47E+03 | -4.23E+03 | 1.24E+03 | -3.67E+04 | 1.80E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1399. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1400. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

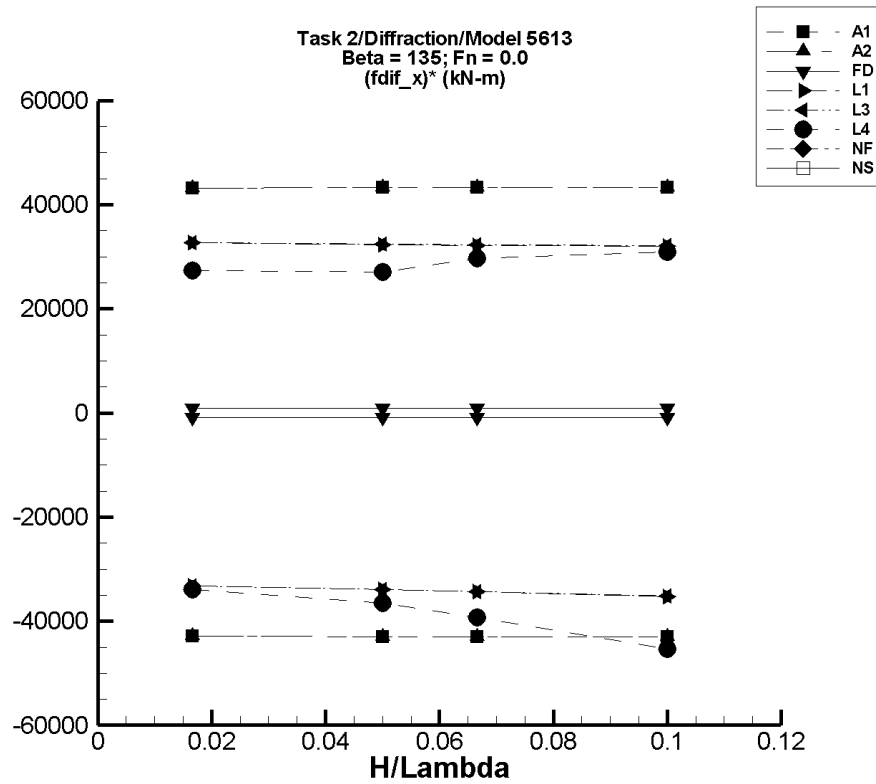


Figure Q-176. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1401. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.799 | -721. | 727. | -714. | 720. | -4.29E+04 | 4.32E+04 |
| 1/20 | 2.40 | -2.17E+03 | 2.19E+03 | -2.15E+03 | 2.17E+03 | -4.30E+04 | 4.33E+04 |
| 1/15 | 3.21 | -2.90E+03 | 2.92E+03 | -2.87E+03 | 2.89E+03 | -4.30E+04 | 4.33E+04 |
| 1/10 | 4.81 | -4.34E+03 | 4.38E+03 | -4.30E+03 | 4.34E+03 | -4.30E+04 | 4.33E+04 |

Table Q-1402. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.799 | -721. | 727. | -714. | 720. | -4.29E+04 | 4.32E+04 |
| 1/20 | 2.40 | -2.17E+03 | 2.19E+03 | -2.15E+03 | 2.17E+03 | -4.30E+04 | 4.33E+04 |
| 1/15 | 3.21 | -2.90E+03 | 2.92E+03 | -2.87E+03 | 2.89E+03 | -4.30E+04 | 4.33E+04 |
| 1/10 | 4.81 | -4.34E+03 | 4.38E+03 | -4.30E+03 | 4.34E+03 | -4.30E+04 | 4.33E+04 |

Table Q-1403. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.02E-03 | -14.5 | 14.5 | -14.4 | 14.4 | -861. | 862. |
| 1/20 | -1.81E-02 | -43.5 | 43.5 | -43.1 | 43.1 | -861. | 862. |
| 1/15 | -2.41E-02 | -58.0 | 58.0 | -57.4 | 57.4 | -861. | 862. |
| 1/10 | -3.61E-02 | -87.0 | 87.0 | -86.1 | 86.1 | -861. | 862. |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1404. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 6.53 | -550. | 554. | -548. | 552. | -3.33E+04 | 3.28E+04 |
| 1/20 | 61.9 | -1.64E+03 | 1.68E+03 | -1.64E+03 | 1.68E+03 | -3.40E+04 | 3.23E+04 |
| 1/15 | 111. | -2.19E+03 | 2.27E+03 | -2.18E+03 | 2.26E+03 | -3.44E+04 | 3.22E+04 |
| 1/10 | 251. | -3.29E+03 | 3.47E+03 | -3.27E+03 | 3.46E+03 | -3.52E+04 | 3.21E+04 |

Table Q-1405. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 6.54 | -549. | 554. | -547. | 553. | -3.32E+04 | 3.28E+04 |
| 1/20 | 61.9 | -1.64E+03 | 1.69E+03 | -1.63E+03 | 1.68E+03 | -3.39E+04 | 3.24E+04 |
| 1/15 | 111. | -2.18E+03 | 2.27E+03 | -2.17E+03 | 2.26E+03 | -3.43E+04 | 3.23E+04 |
| 1/10 | 251. | -3.28E+03 | 3.48E+03 | -3.26E+03 | 3.47E+03 | -3.51E+04 | 3.22E+04 |

Table Q-1406. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -31.4 | -615. | 431. | -597. | 425. | -3.40E+04 | 2.74E+04 |
| 1/20 | -319. | -2.18E+03 | 1.11E+03 | -2.15E+03 | 1.04E+03 | -3.66E+04 | 2.71E+04 |
| 1/15 | -543. | -3.21E+03 | 1.53E+03 | -3.16E+03 | 1.44E+03 | -3.93E+04 | 2.98E+04 |
| 1/10 | -853. | -5.71E+03 | 2.62E+03 | -5.39E+03 | 2.25E+03 | -4.54E+04 | 3.10E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1407. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1408. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

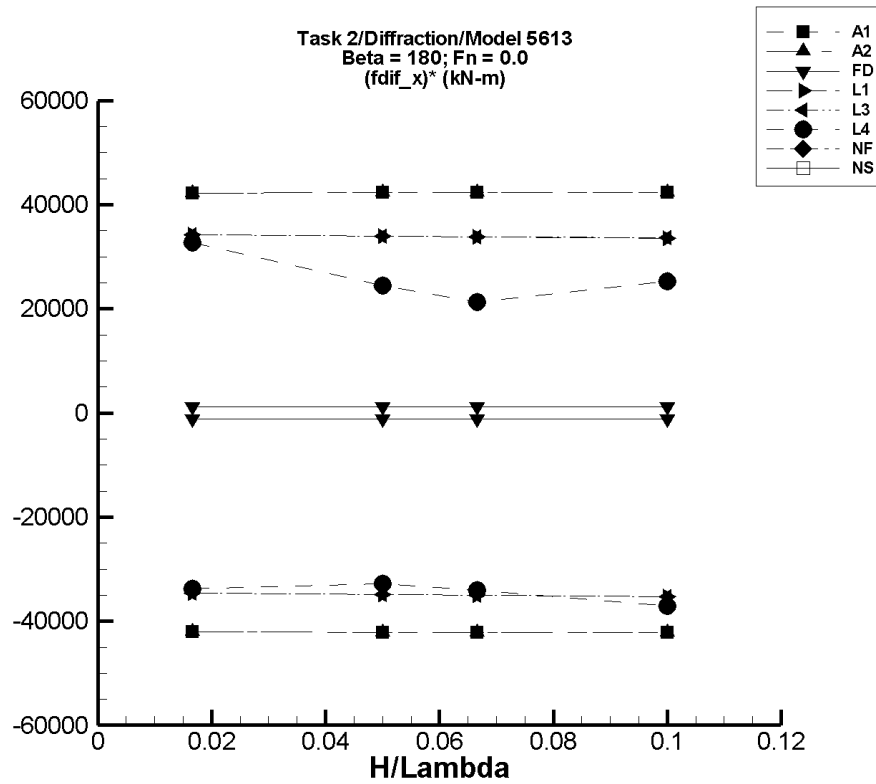


Figure Q-177. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1409. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.346 | -708. | 712. | -700. | 704. | -4.20E+04 | 4.22E+04 |
| 1/20 | 1.04 | -2.13E+03 | 2.14E+03 | -2.11E+03 | 2.12E+03 | -4.21E+04 | 4.23E+04 |
| 1/15 | 1.39 | -2.84E+03 | 2.86E+03 | -2.81E+03 | 2.83E+03 | -4.22E+04 | 4.24E+04 |
| 1/10 | 2.09 | -4.26E+03 | 4.29E+03 | -4.22E+03 | 4.24E+03 | -4.22E+04 | 4.24E+04 |

Table Q-1410. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.346 | -708. | 712. | -700. | 704. | -4.20E+04 | 4.22E+04 |
| 1/20 | 1.04 | -2.13E+03 | 2.14E+03 | -2.11E+03 | 2.12E+03 | -4.21E+04 | 4.23E+04 |
| 1/15 | 1.39 | -2.84E+03 | 2.86E+03 | -2.81E+03 | 2.83E+03 | -4.22E+04 | 4.24E+04 |
| 1/10 | 2.09 | -4.26E+03 | 4.29E+03 | -4.22E+03 | 4.24E+03 | -4.22E+04 | 4.24E+04 |

Table Q-1411. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.27E-03 | -20.0 | 20.0 | -19.8 | 19.8 | -1.19E+03 | 1.19E+03 |
| 1/20 | 1.58E-02 | -59.9 | 59.9 | -59.3 | 59.3 | -1.19E+03 | 1.19E+03 |
| 1/15 | 2.11E-02 | -79.9 | 79.9 | -79.1 | 79.1 | -1.19E+03 | 1.19E+03 |
| 1/10 | 3.16E-02 | -120. | 120. | -119. | 119. | -1.19E+03 | 1.19E+03 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1412. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 12.5 | -566. | 586. | -564. | 584. | -3.46E+04 | 3.43E+04 |
| 1/20 | 114. | -1.64E+03 | 1.82E+03 | -1.63E+03 | 1.81E+03 | -3.49E+04 | 3.40E+04 |
| 1/15 | 204. | -2.14E+03 | 2.47E+03 | -2.13E+03 | 2.46E+03 | -3.50E+04 | 3.39E+04 |
| 1/10 | 459. | -3.09E+03 | 3.83E+03 | -3.07E+03 | 3.82E+03 | -3.53E+04 | 3.36E+04 |

Table Q-1413. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 12.6 | -565. | 586. | -563. | 584. | -3.46E+04 | 3.43E+04 |
| 1/20 | 114. | -1.63E+03 | 1.82E+03 | -1.63E+03 | 1.82E+03 | -3.48E+04 | 3.40E+04 |
| 1/15 | 204. | -2.14E+03 | 2.47E+03 | -2.13E+03 | 2.46E+03 | -3.50E+04 | 3.39E+04 |
| 1/10 | 459. | -3.08E+03 | 3.83E+03 | -3.07E+03 | 3.82E+03 | -3.53E+04 | 3.36E+04 |

Table Q-1414. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -12.8 | -580. | 538. | -575. | 532. | -3.38E+04 | 3.27E+04 |
| 1/20 | -194. | -1.85E+03 | 1.12E+03 | -1.84E+03 | 1.03E+03 | -3.29E+04 | 2.45E+04 |
| 1/15 | -328. | -2.62E+03 | 1.20E+03 | -2.60E+03 | 1.09E+03 | -3.40E+04 | 2.13E+04 |
| 1/10 | -505. | -4.80E+03 | 2.59E+03 | -4.21E+03 | 2.02E+03 | -3.71E+04 | 2.53E+04 |

Table Q–1415. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1416. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

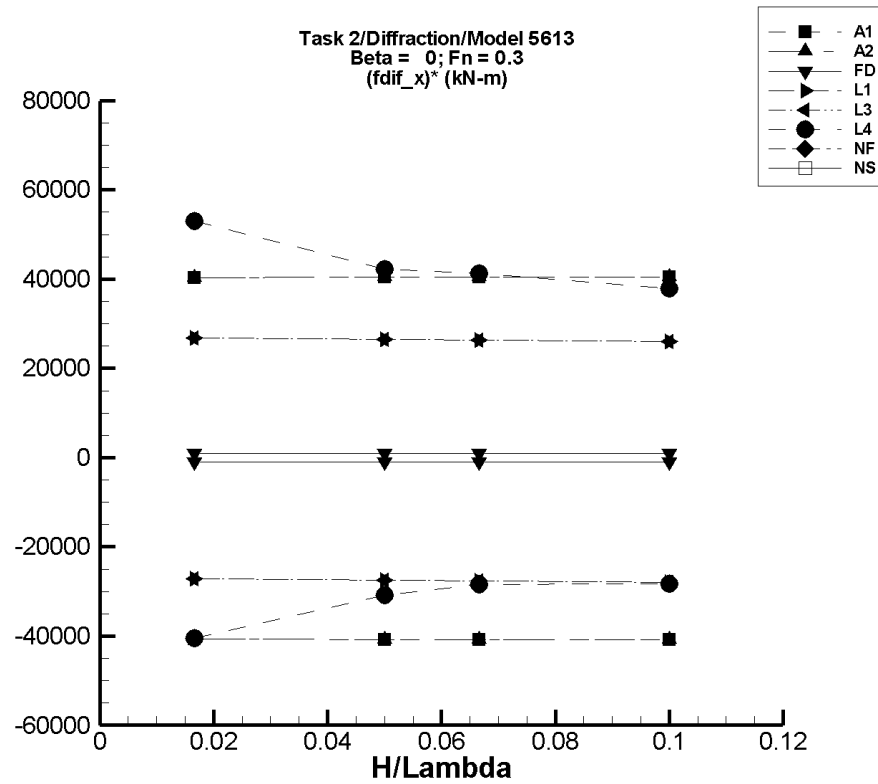


Figure Q-178. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1417. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.239 | -677. | 674. | -677. | 673. | -4.06E+04 | 4.04E+04 |
| 1/20 | 0.719 | -2.04E+03 | 2.03E+03 | -2.04E+03 | 2.02E+03 | -4.07E+04 | 4.05E+04 |
| 1/15 | 0.960 | -2.72E+03 | 2.70E+03 | -2.72E+03 | 2.70E+03 | -4.08E+04 | 4.05E+04 |
| 1/10 | 1.44 | -4.08E+03 | 4.06E+03 | -4.08E+03 | 4.05E+03 | -4.08E+04 | 4.05E+04 |

Table Q-1418. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.239 | -677. | 674. | -677. | 673. | -4.06E+04 | 4.04E+04 |
| 1/20 | 0.719 | -2.04E+03 | 2.03E+03 | -2.04E+03 | 2.02E+03 | -4.07E+04 | 4.05E+04 |
| 1/15 | 0.960 | -2.72E+03 | 2.70E+03 | -2.72E+03 | 2.70E+03 | -4.08E+04 | 4.05E+04 |
| 1/10 | 1.44 | -4.08E+03 | 4.06E+03 | -4.08E+03 | 4.05E+03 | -4.08E+04 | 4.05E+04 |

Table Q-1419. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.48E-04 | -15.5 | 15.5 | -15.5 | 15.5 | -931. | 931. |
| 1/20 | -7.41E-04 | -46.6 | 46.6 | -46.5 | 46.5 | -931. | 931. |
| 1/15 | -9.91E-04 | -62.1 | 62.1 | -62.1 | 62.1 | -931. | 931. |
| 1/10 | -1.48E-03 | -93.2 | 93.1 | -93.1 | 93.1 | -931. | 931. |

Table Q–1420. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -26.0 | -479. | 421. | -479. | 421. | -2.72E+04 | 2.68E+04 |
| 1/20 | 97.0 | -1.28E+03 | 1.42E+03 | -1.28E+03 | 1.42E+03 | -2.75E+04 | 2.65E+04 |
| 1/15 | 204. | -1.64E+03 | 1.96E+03 | -1.64E+03 | 1.96E+03 | -2.77E+04 | 2.63E+04 |
| 1/10 | 511. | -2.29E+03 | 3.11E+03 | -2.29E+03 | 3.11E+03 | -2.80E+04 | 2.60E+04 |

Table Q–1421. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -26.0 | -479. | 421. | -479. | 421. | -2.72E+04 | 2.68E+04 |
| 1/20 | 97.0 | -1.28E+03 | 1.42E+03 | -1.28E+03 | 1.42E+03 | -2.75E+04 | 2.65E+04 |
| 1/15 | 204. | -1.64E+03 | 1.96E+03 | -1.64E+03 | 1.96E+03 | -2.77E+04 | 2.63E+04 |
| 1/10 | 511. | -2.29E+03 | 3.11E+03 | -2.29E+03 | 3.11E+03 | -2.80E+04 | 2.60E+04 |

Table Q–1422. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 186. | -512. | 1.14E+03 | -489. | 1.07E+03 | -4.05E+04 | 5.31E+04 |
| 1/20 | 610. | -991. | 2.90E+03 | -930. | 2.72E+03 | -3.08E+04 | 4.23E+04 |
| 1/15 | 746. | -1.22E+03 | 3.72E+03 | -1.15E+03 | 3.50E+03 | -2.84E+04 | 4.13E+04 |
| 1/10 | 1.02E+03 | -2.64E+03 | 5.17E+03 | -1.81E+03 | 4.80E+03 | -2.83E+04 | 3.78E+04 |

Table Q–1423. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1424. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

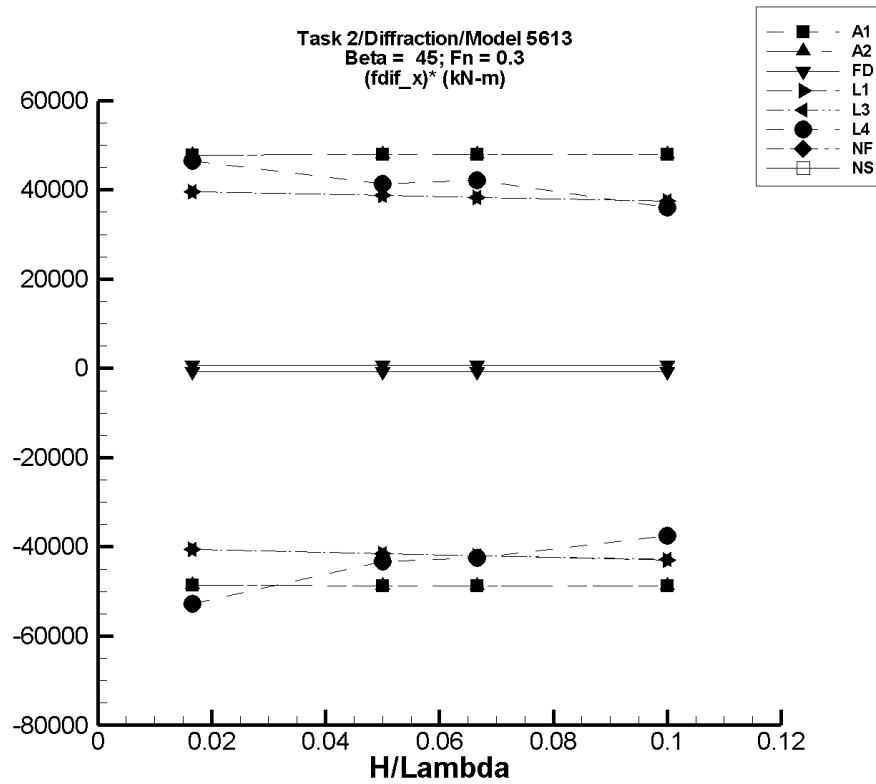


Figure Q-179. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1425. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.20 | -822. | 823. | -808. | 799. | -4.86E+04 | 4.78E+04 |
| 1/20 | 9.64 | -2.47E+03 | 2.48E+03 | -2.43E+03 | 2.40E+03 | -4.88E+04 | 4.79E+04 |
| 1/15 | 12.9 | -3.30E+03 | 3.30E+03 | -3.24E+03 | 3.21E+03 | -4.88E+04 | 4.80E+04 |
| 1/10 | 19.3 | -4.95E+03 | 4.96E+03 | -4.86E+03 | 4.82E+03 | -4.88E+04 | 4.80E+04 |

Table Q-1426. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.20 | -822. | 823. | -808. | 799. | -4.86E+04 | 4.78E+04 |
| 1/20 | 9.64 | -2.47E+03 | 2.48E+03 | -2.43E+03 | 2.40E+03 | -4.88E+04 | 4.79E+04 |
| 1/15 | 12.9 | -3.30E+03 | 3.30E+03 | -3.24E+03 | 3.21E+03 | -4.88E+04 | 4.80E+04 |
| 1/10 | 19.3 | -4.95E+03 | 4.96E+03 | -4.86E+03 | 4.82E+03 | -4.88E+04 | 4.80E+04 |

Table Q-1427. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.72E-03 | -12.8 | 12.8 | -12.8 | 12.8 | -766. | 766. |
| 1/20 | 1.12E-02 | -38.4 | 38.4 | -38.3 | 38.3 | -766. | 766. |
| 1/15 | 1.49E-02 | -51.2 | 51.2 | -51.1 | 51.1 | -766. | 766. |
| 1/10 | 2.24E-02 | -76.7 | 76.7 | -76.6 | 76.6 | -766. | 766. |

Table Q-1428. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -29.4 | -706. | 632. | -705. | 631. | -4.05E+04 | 3.96E+04 |
| 1/20 | 69.6 | -2.01E+03 | 2.01E+03 | -2.00E+03 | 2.01E+03 | -4.15E+04 | 3.87E+04 |
| 1/15 | 156. | -2.64E+03 | 2.71E+03 | -2.64E+03 | 2.71E+03 | -4.20E+04 | 3.83E+04 |
| 1/10 | 404. | -3.89E+03 | 4.15E+03 | -3.89E+03 | 4.15E+03 | -4.29E+04 | 3.75E+04 |

Table Q-1429. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -29.4 | -706. | 632. | -705. | 631. | -4.05E+04 | 3.96E+04 |
| 1/20 | 69.6 | -2.01E+03 | 2.01E+03 | -2.00E+03 | 2.01E+03 | -4.15E+04 | 3.88E+04 |
| 1/15 | 156. | -2.64E+03 | 2.71E+03 | -2.64E+03 | 2.71E+03 | -4.19E+04 | 3.83E+04 |
| 1/10 | 404. | -3.89E+03 | 4.16E+03 | -3.89E+03 | 4.15E+03 | -4.29E+04 | 3.75E+04 |

Table Q–1430. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 199. | -707. | 975. | -680. | 974. | -5.27E+04 | 4.65E+04 |
| 1/20 | 645. | -1.56E+03 | 2.74E+03 | -1.52E+03 | 2.71E+03 | -4.33E+04 | 4.14E+04 |
| 1/15 | 799. | -2.11E+03 | 3.65E+03 | -2.03E+03 | 3.61E+03 | -4.24E+04 | 4.22E+04 |
| 1/10 | 1.11E+03 | -4.89E+03 | 5.20E+03 | -2.64E+03 | 4.71E+03 | -3.75E+04 | 3.60E+04 |

Table Q–1431. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1432. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

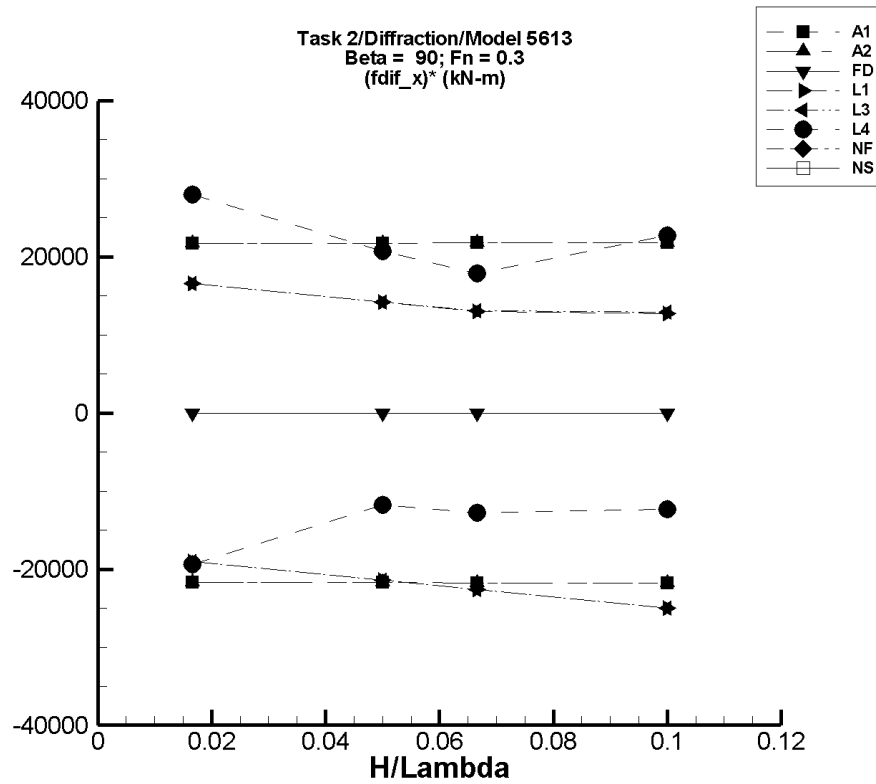


Figure Q-180. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1433. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 9.63E-02 | -365. | 366. | -361. | 362. | -2.17E+04 | 2.17E+04 |
| 1/20 | 0.290 | -1.10E+03 | 1.10E+03 | -1.09E+03 | 1.09E+03 | -2.17E+04 | 2.18E+04 |
| 1/15 | 0.387 | -1.47E+03 | 1.47E+03 | -1.45E+03 | 1.45E+03 | -2.17E+04 | 2.18E+04 |
| 1/10 | 0.580 | -2.20E+03 | 2.21E+03 | -2.17E+03 | 2.18E+03 | -2.17E+04 | 2.18E+04 |

Table Q-1434. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 9.63E-02 | -365. | 366. | -361. | 362. | -2.17E+04 | 2.17E+04 |
| 1/20 | 0.290 | -1.10E+03 | 1.10E+03 | -1.09E+03 | 1.09E+03 | -2.17E+04 | 2.18E+04 |
| 1/15 | 0.387 | -1.47E+03 | 1.47E+03 | -1.45E+03 | 1.45E+03 | -2.17E+04 | 2.18E+04 |
| 1/10 | 0.580 | -2.20E+03 | 2.21E+03 | -2.17E+03 | 2.18E+03 | -2.17E+04 | 2.18E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1435. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered $(F_x^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -1.35E-09 | -3.63E-06 | 3.63E-06 | -3.60E-06 | 3.60E-06 | -2.16E-04 | 2.16E-04 |
| 1/20 | -4.05E-09 | -1.09E-05 | 1.09E-05 | -1.08E-05 | 1.08E-05 | -2.16E-04 | 2.16E-04 |
| 1/15 | -5.40E-09 | -1.45E-05 | 1.45E-05 | -1.44E-05 | 1.44E-05 | -2.16E-04 | 2.16E-04 |
| 1/10 | -8.10E-09 | -2.18E-05 | 2.18E-05 | -2.16E-05 | 2.16E-05 | -2.16E-04 | 2.16E-04 |

Table Q-1436. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered $(F_x^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -36.6 | -354. | 240. | -353. | 240. | -1.90E+04 | 1.66E+04 |
| 1/20 | 3.31 | -1.07E+03 | 712. | -1.07E+03 | 712. | -2.14E+04 | 1.42E+04 |
| 1/15 | 38.1 | -1.48E+03 | 909. | -1.47E+03 | 908. | -2.26E+04 | 1.30E+04 |
| 1/10 | 137. | -2.38E+03 | 1.42E+03 | -2.36E+03 | 1.41E+03 | -2.50E+04 | 1.27E+04 |

Table Q-1437. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered $(F_x^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -36.6 | -355. | 241. | -353. | 240. | -1.90E+04 | 1.66E+04 |
| 1/20 | 3.33 | -1.07E+03 | 713. | -1.07E+03 | 712. | -2.14E+04 | 1.42E+04 |
| 1/15 | 38.1 | -1.48E+03 | 915. | -1.47E+03 | 914. | -2.26E+04 | 1.31E+04 |
| 1/10 | 137. | -2.38E+03 | 1.43E+03 | -2.36E+03 | 1.43E+03 | -2.50E+04 | 1.29E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1438. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 193. | -146. | 666. | -131. | 659. | -1.94E+04 | 2.80E+04 |
| 1/20 | 583. | -103. | 1.68E+03 | -7.09 | 1.62E+03 | -1.18E+04 | 2.07E+04 |
| 1/15 | 706. | -165. | 2.01E+03 | -145. | 1.89E+03 | -1.28E+04 | 1.78E+04 |
| 1/10 | 1.00E+03 | -4.36E+03 | 6.79E+03 | -231. | 3.27E+03 | -1.23E+04 | 2.27E+04 |

Table Q-1439. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1440. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

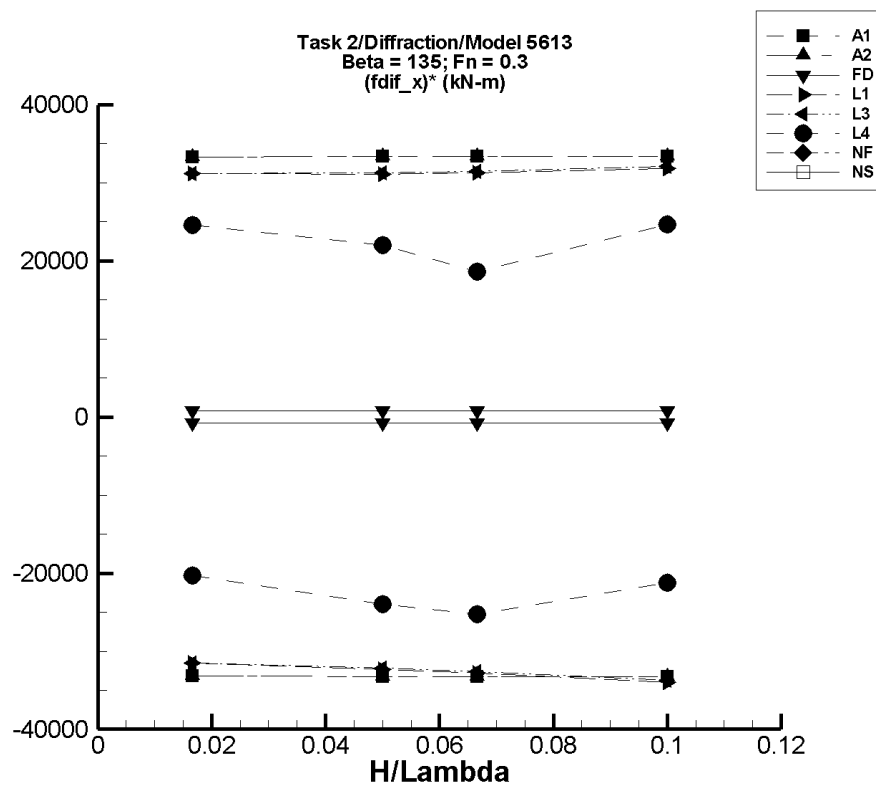


Figure Q-181. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1441. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.664 | -571. | 567. | -553. | 553. | -3.32E+04 | 3.32E+04 |
| 1/20 | -2.00 | -1.72E+03 | 1.71E+03 | -1.66E+03 | 1.66E+03 | -3.32E+04 | 3.33E+04 |
| 1/15 | -2.67 | -2.29E+03 | 2.28E+03 | -2.22E+03 | 2.22E+03 | -3.33E+04 | 3.34E+04 |
| 1/10 | -4.00 | -3.44E+03 | 3.42E+03 | -3.33E+03 | 3.33E+03 | -3.33E+04 | 3.34E+04 |

Table Q-1442. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.664 | -571. | 567. | -553. | 553. | -3.32E+04 | 3.32E+04 |
| 1/20 | -2.00 | -1.72E+03 | 1.71E+03 | -1.66E+03 | 1.66E+03 | -3.32E+04 | 3.33E+04 |
| 1/15 | -2.67 | -2.29E+03 | 2.28E+03 | -2.22E+03 | 2.22E+03 | -3.33E+04 | 3.34E+04 |
| 1/10 | -4.00 | -3.44E+03 | 3.42E+03 | -3.33E+03 | 3.33E+03 | -3.33E+04 | 3.34E+04 |

Table Q-1443. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.70E-04 | -13.0 | 13.0 | -12.7 | 12.7 | -761. | 760. |
| 1/20 | -5.10E-04 | -38.9 | 38.9 | -38.0 | 38.0 | -761. | 760. |
| 1/15 | -6.79E-04 | -51.9 | 51.9 | -50.7 | 50.7 | -761. | 760. |
| 1/10 | -1.02E-03 | -77.9 | 77.8 | -76.1 | 76.0 | -761. | 760. |

Table Q-1444. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -32.6 | -563. | 490. | -558. | 486. | -3.15E+04 | 3.11E+04 |
| 1/20 | 39.9 | -1.59E+03 | 1.61E+03 | -1.58E+03 | 1.59E+03 | -3.23E+04 | 3.11E+04 |
| 1/15 | 103. | -2.11E+03 | 2.21E+03 | -2.08E+03 | 2.19E+03 | -3.28E+04 | 3.12E+04 |
| 1/10 | 285. | -3.15E+03 | 3.50E+03 | -3.11E+03 | 3.46E+03 | -3.40E+04 | 3.18E+04 |

Table Q-1445. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | $(F_x^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -32.6 | -562. | 491. | -558. | 487. | -3.15E+04 | 3.12E+04 |
| 1/20 | 39.9 | -1.58E+03 | 1.62E+03 | -1.57E+03 | 1.60E+03 | -3.22E+04 | 3.12E+04 |
| 1/15 | 103. | -2.10E+03 | 2.22E+03 | -2.07E+03 | 2.20E+03 | -3.26E+04 | 3.14E+04 |
| 1/10 | 285. | -3.13E+03 | 3.53E+03 | -3.09E+03 | 3.49E+03 | -3.37E+04 | 3.21E+04 |

Table Q–1446. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 195. | -174. | 612. | -142. | 605. | -2.03E+04 | 2.45E+04 |
| 1/20 | 588. | -733. | 1.89E+03 | -610. | 1.69E+03 | -2.40E+04 | 2.20E+04 |
| 1/15 | 739. | -1.11E+03 | 2.00E+03 | -949. | 1.98E+03 | -2.53E+04 | 1.86E+04 |
| 1/10 | 1.10E+03 | -3.00E+03 | 7.57E+03 | -1.02E+03 | 3.57E+03 | -2.12E+04 | 2.47E+04 |

Table Q–1447. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1448. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

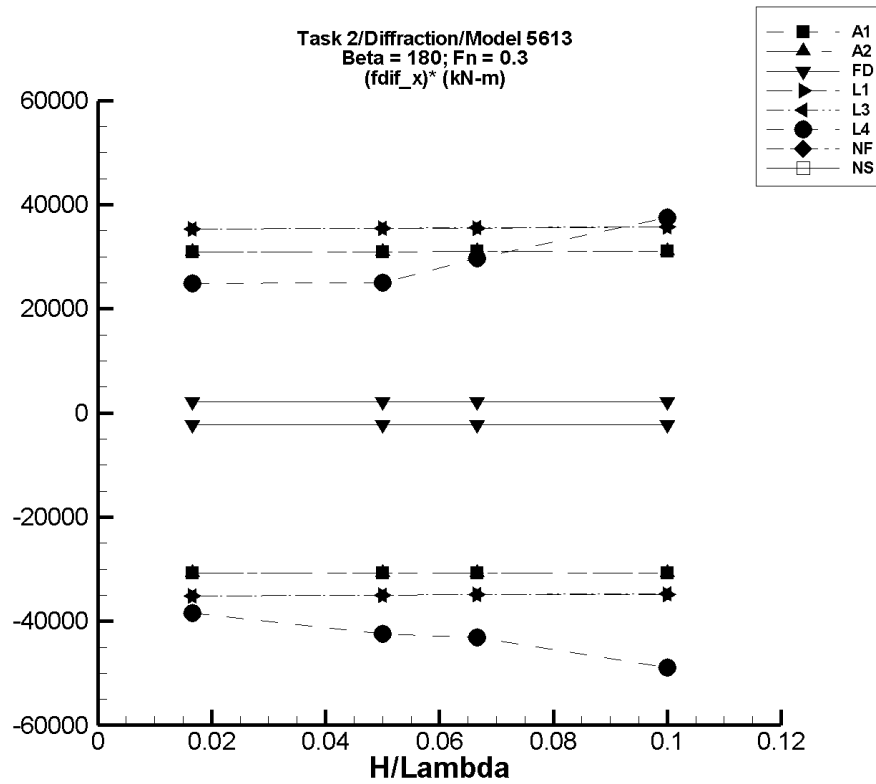


Figure Q-182. Minimum and maximum of filtered $(F_x^{\text{dif}} - \langle F_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1449. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.34 | -531. | 543. | -515. | 512. | -3.07E+04 | 3.09E+04 |
| 1/20 | -10.0 | -1.60E+03 | 1.63E+03 | -1.55E+03 | 1.54E+03 | -3.08E+04 | 3.10E+04 |
| 1/15 | -13.4 | -2.13E+03 | 2.18E+03 | -2.07E+03 | 2.05E+03 | -3.08E+04 | 3.10E+04 |
| 1/10 | -20.1 | -3.20E+03 | 3.27E+03 | -3.10E+03 | 3.08E+03 | -3.08E+04 | 3.10E+04 |

Table Q-1450. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -3.34 | -531. | 543. | -515. | 512. | -3.07E+04 | 3.09E+04 |
| 1/20 | -10.0 | -1.60E+03 | 1.63E+03 | -1.55E+03 | 1.54E+03 | -3.08E+04 | 3.10E+04 |
| 1/15 | -13.4 | -2.13E+03 | 2.18E+03 | -2.07E+03 | 2.05E+03 | -3.08E+04 | 3.10E+04 |
| 1/10 | -20.1 | -3.20E+03 | 3.27E+03 | -3.10E+03 | 3.08E+03 | -3.08E+04 | 3.10E+04 |

Table Q-1451. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 3.23E-03 | -37.7 | 37.6 | -36.5 | 36.4 | -2.19E+03 | 2.19E+03 |
| 1/20 | 9.71E-03 | -113. | 113. | -109. | 109. | -2.19E+03 | 2.19E+03 |
| 1/15 | 1.29E-02 | -151. | 151. | -146. | 146. | -2.19E+03 | 2.19E+03 |
| 1/10 | 1.94E-02 | -226. | 226. | -219. | 219. | -2.19E+03 | 2.19E+03 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1452. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered $(F_x^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -26.6 | -618. | 568. | -612. | 562. | -3.51E+04 | 3.53E+04 |
| 1/20 | 95.6 | -1.67E+03 | 1.89E+03 | -1.65E+03 | 1.87E+03 | -3.50E+04 | 3.54E+04 |
| 1/15 | 203. | -2.15E+03 | 2.60E+03 | -2.13E+03 | 2.57E+03 | -3.49E+04 | 3.55E+04 |
| 1/10 | 509. | -3.01E+03 | 4.12E+03 | -2.97E+03 | 4.08E+03 | -3.48E+04 | 3.57E+04 |

Table Q-1453. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered $(F_x^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -26.5 | -618. | 569. | -612. | 562. | -3.51E+04 | 3.53E+04 |
| 1/20 | 95.7 | -1.67E+03 | 1.89E+03 | -1.65E+03 | 1.87E+03 | -3.50E+04 | 3.55E+04 |
| 1/15 | 203. | -2.15E+03 | 2.60E+03 | -2.12E+03 | 2.57E+03 | -3.49E+04 | 3.56E+04 |
| 1/10 | 510. | -3.01E+03 | 4.13E+03 | -2.97E+03 | 4.09E+03 | -3.48E+04 | 3.58E+04 |

Table Q-1454. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_x^{dif} Max. (kN) | Filtered Min. (kN) | F_x^{dif} Max. (kN) | Filtered $(F_x^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | 153. | -608. | 712. | -488. | 568. | -3.85E+04 | 2.49E+04 |
| 1/20 | 363. | -2.71E+03 | 2.03E+03 | -1.76E+03 | 1.61E+03 | -4.24E+04 | 2.50E+04 |
| 1/15 | 498. | -3.38E+03 | 2.88E+03 | -2.38E+03 | 2.48E+03 | -4.31E+04 | 2.97E+04 |
| 1/10 | 941. | -5.60E+03 | 1.05E+04 | -3.95E+03 | 4.69E+03 | -4.89E+04 | 3.75E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1455. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1456. Minimum and Maximum of Variables F_x^{dif} and $(F_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_x^{\text{dif}} \rangle$ | Unfiltered F_x^{dif} | | Filtered F_x^{dif} | | Filtered $(F_x^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

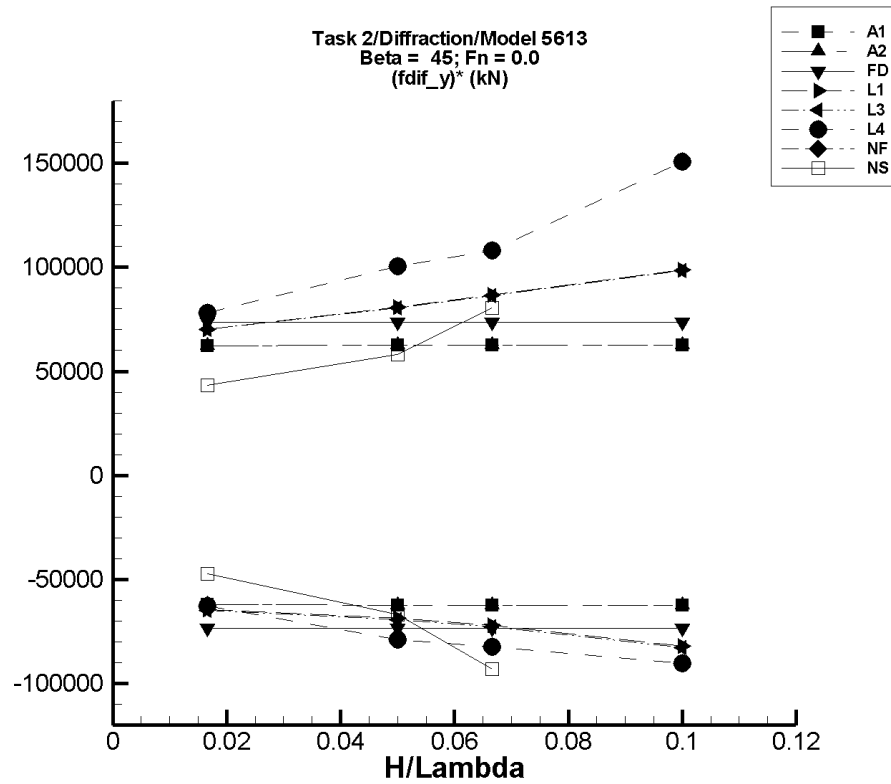


Figure Q-183. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1457. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.89 | -1.05E+03 | 1.05E+03 | -1.04E+03 | 1.04E+03 | -6.21E+04 | 6.23E+04 |
| 1/20 | -5.67 | -3.15E+03 | 3.15E+03 | -3.12E+03 | 3.12E+03 | -6.23E+04 | 6.25E+04 |
| 1/15 | -7.57 | -4.21E+03 | 4.20E+03 | -4.17E+03 | 4.16E+03 | -6.24E+04 | 6.26E+04 |
| 1/10 | -11.4 | -6.31E+03 | 6.31E+03 | -6.25E+03 | 6.25E+03 | -6.24E+04 | 6.26E+04 |

Table Q-1458. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.89 | -1.05E+03 | 1.05E+03 | -1.04E+03 | 1.04E+03 | -6.21E+04 | 6.23E+04 |
| 1/20 | -5.67 | -3.15E+03 | 3.15E+03 | -3.12E+03 | 3.12E+03 | -6.23E+04 | 6.25E+04 |
| 1/15 | -7.57 | -4.21E+03 | 4.20E+03 | -4.17E+03 | 4.16E+03 | -6.24E+04 | 6.26E+04 |
| 1/10 | -11.4 | -6.31E+03 | 6.31E+03 | -6.25E+03 | 6.25E+03 | -6.24E+04 | 6.26E+04 |

Table Q-1459. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.15E-02 | -1.24E+03 | 1.24E+03 | -1.23E+03 | 1.23E+03 | -7.35E+04 | 7.35E+04 |
| 1/20 | 3.41E-02 | -3.71E+03 | 3.71E+03 | -3.68E+03 | 3.68E+03 | -7.35E+04 | 7.35E+04 |
| 1/15 | 4.56E-02 | -4.95E+03 | 4.95E+03 | -4.90E+03 | 4.90E+03 | -7.35E+04 | 7.35E+04 |
| 1/10 | 6.84E-02 | -7.43E+03 | 7.43E+03 | -7.35E+03 | 7.35E+03 | -7.35E+04 | 7.35E+04 |

Table Q-1460. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -200. | -1.28E+03 | 975. | -1.27E+03 | 970. | -6.44E+04 | 7.02E+04 |
| 1/20 | -1.80E+03 | -5.22E+03 | 2.26E+03 | -5.24E+03 | 2.24E+03 | -6.87E+04 | 8.08E+04 |
| 1/15 | -3.21E+03 | -8.03E+03 | 2.61E+03 | -8.01E+03 | 2.57E+03 | -7.20E+04 | 8.66E+04 |
| 1/10 | -7.22E+03 | -1.55E+04 | 2.75E+03 | -1.54E+04 | 2.67E+03 | -8.19E+04 | 9.89E+04 |

Table Q-1461. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -200. | -1.28E+03 | 972. | -1.28E+03 | 967. | -6.47E+04 | 7.00E+04 |
| 1/20 | -1.80E+03 | -5.25E+03 | 2.24E+03 | -5.27E+03 | 2.22E+03 | -6.92E+04 | 8.04E+04 |
| 1/15 | -3.21E+03 | -8.08E+03 | 2.58E+03 | -8.05E+03 | 2.54E+03 | -7.26E+04 | 8.62E+04 |
| 1/10 | -7.22E+03 | -1.56E+04 | 2.70E+03 | -1.55E+04 | 2.62E+03 | -8.27E+04 | 9.84E+04 |

Table Q-1462. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 78.9 | -1.05E+03 | 1.50E+03 | -966. | 1.38E+03 | -6.27E+04 | 7.81E+04 |
| 1/20 | 819. | -3.83E+03 | 6.33E+03 | -3.13E+03 | 5.84E+03 | -7.90E+04 | 1.00E+05 |
| 1/15 | 1.73E+03 | -4.24E+03 | 9.75E+03 | -3.77E+03 | 8.92E+03 | -8.24E+04 | 1.08E+05 |
| 1/10 | 3.57E+03 | -7.80E+03 | 2.02E+04 | -5.45E+03 | 1.87E+04 | -9.03E+04 | 1.51E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1463. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1464. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 138. | -657. | 888. | -649. | 859. | -4.72E+04 | 4.33E+04 |
| 1/20 | 1.16E+03 | -2.33E+03 | 4.86E+03 | -2.18E+03 | 4.07E+03 | -6.68E+04 | 5.83E+04 |
| 1/15 | 2.00E+03 | -4.54E+03 | 7.57E+03 | -4.20E+03 | 7.36E+03 | -9.30E+04 | 8.03E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

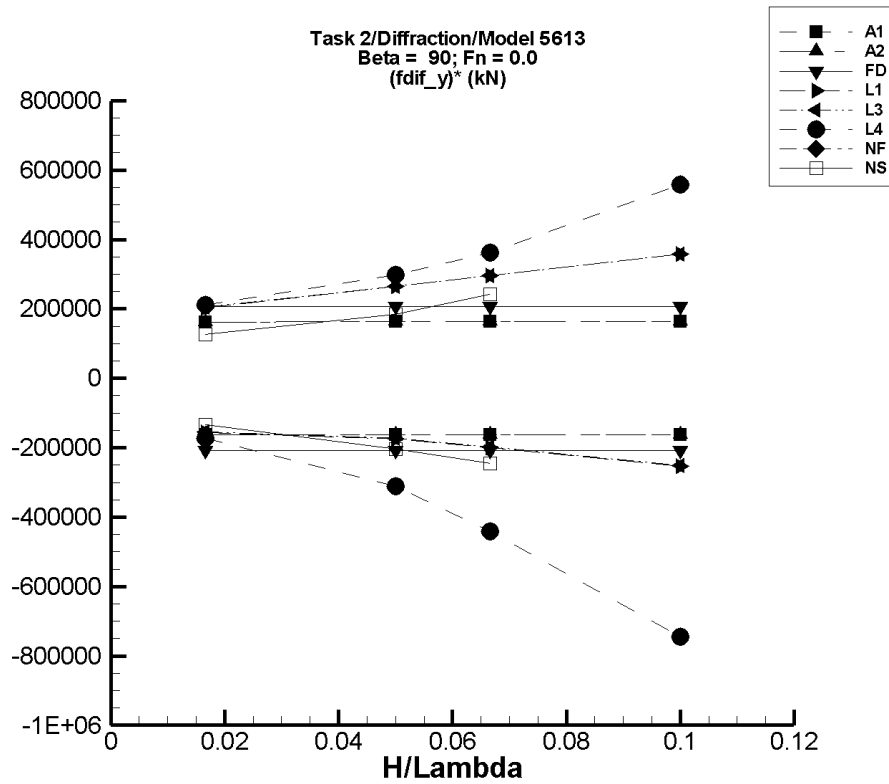


Figure Q-184. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1465. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.43 | -2.73E+03 | 2.76E+03 | -2.70E+03 | 2.71E+03 | -1.62E+05 | 1.63E+05 |
| 1/20 | -7.32 | -8.21E+03 | 8.29E+03 | -8.12E+03 | 8.14E+03 | -1.62E+05 | 1.63E+05 |
| 1/15 | -9.77 | -1.10E+04 | 1.11E+04 | -1.08E+04 | 1.09E+04 | -1.62E+05 | 1.63E+05 |
| 1/10 | -14.7 | -1.64E+04 | 1.66E+04 | -1.63E+04 | 1.63E+04 | -1.62E+05 | 1.63E+05 |

Table Q-1466. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.43 | -2.73E+03 | 2.76E+03 | -2.70E+03 | 2.71E+03 | -1.62E+05 | 1.63E+05 |
| 1/20 | -7.32 | -8.21E+03 | 8.29E+03 | -8.12E+03 | 8.14E+03 | -1.62E+05 | 1.63E+05 |
| 1/15 | -9.77 | -1.10E+04 | 1.11E+04 | -1.08E+04 | 1.09E+04 | -1.62E+05 | 1.63E+05 |
| 1/10 | -14.7 | -1.64E+04 | 1.66E+04 | -1.63E+04 | 1.63E+04 | -1.62E+05 | 1.63E+05 |

Table Q-1467. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.926 | -3.50E+03 | 3.50E+03 | -3.46E+03 | 3.46E+03 | -2.08E+05 | 2.08E+05 |
| 1/20 | -2.78 | -1.05E+04 | 1.05E+04 | -1.04E+04 | 1.04E+04 | -2.08E+05 | 2.08E+05 |
| 1/15 | -3.70 | -1.40E+04 | 1.40E+04 | -1.38E+04 | 1.38E+04 | -2.08E+05 | 2.08E+05 |
| 1/10 | -5.56 | -2.10E+04 | 2.10E+04 | -2.08E+04 | 2.08E+04 | -2.08E+05 | 2.08E+05 |

Table Q-1468. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -382. | -2.98E+03 | 3.03E+03 | -2.97E+03 | 3.01E+03 | -1.55E+05 | 2.04E+05 |
| 1/20 | -3.43E+03 | -1.23E+04 | 9.87E+03 | -1.22E+04 | 9.78E+03 | -1.76E+05 | 2.64E+05 |
| 1/15 | -6.10E+03 | -1.95E+04 | 1.37E+04 | -1.94E+04 | 1.36E+04 | -2.00E+05 | 2.95E+05 |
| 1/10 | -1.37E+04 | -3.94E+04 | 2.23E+04 | -3.91E+04 | 2.20E+04 | -2.54E+05 | 3.57E+05 |

Table Q-1469. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -382. | -2.96E+03 | 3.04E+03 | -2.95E+03 | 3.02E+03 | -1.54E+05 | 2.04E+05 |
| 1/20 | -3.43E+03 | -1.22E+04 | 9.91E+03 | -1.21E+04 | 9.81E+03 | -1.73E+05 | 2.65E+05 |
| 1/15 | -6.10E+03 | -1.93E+04 | 1.38E+04 | -1.92E+04 | 1.36E+04 | -1.97E+05 | 2.96E+05 |
| 1/10 | -1.37E+04 | -3.91E+04 | 2.23E+04 | -3.88E+04 | 2.20E+04 | -2.51E+05 | 3.58E+05 |

Table Q-1470. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 252. | -2.82E+03 | 4.07E+03 | -2.65E+03 | 3.77E+03 | -1.74E+05 | 2.11E+05 |
| 1/20 | 1.80E+03 | -1.43E+04 | 1.81E+04 | -1.37E+04 | 1.67E+04 | -3.11E+05 | 2.98E+05 |
| 1/15 | 3.29E+03 | -2.67E+04 | 2.88E+04 | -2.61E+04 | 2.74E+04 | -4.41E+05 | 3.61E+05 |
| 1/10 | 5.56E+03 | -7.10E+04 | 6.52E+04 | -6.89E+04 | 6.13E+04 | -7.45E+05 | 5.57E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1471. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1472. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 209. | -2.06E+03 | 2.38E+03 | -2.04E+03 | 2.33E+03 | -1.35E+05 | 1.27E+05 |
| 1/20 | 1.74E+03 | -9.10E+03 | 1.16E+04 | -8.49E+03 | 1.09E+04 | -2.04E+05 | 1.84E+05 |
| 1/15 | 2.95E+03 | -1.40E+04 | 1.99E+04 | -1.34E+04 | 1.91E+04 | -2.46E+05 | 2.42E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

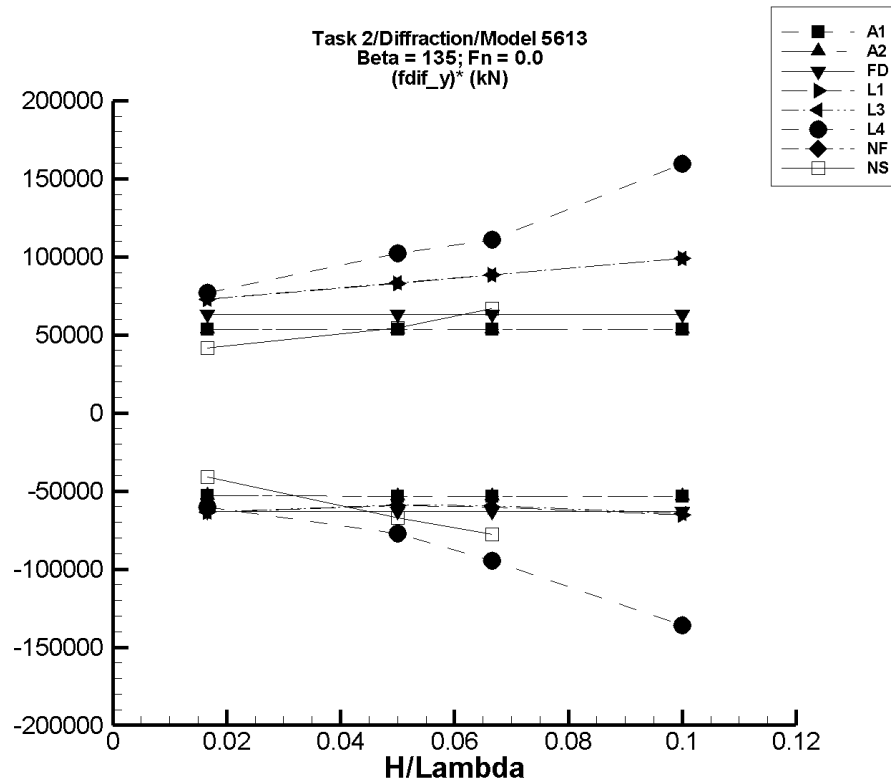


Figure Q-185. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1473. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.543 | -901. | 906. | -884. | 889. | -5.31E+04 | 5.33E+04 |
| 1/20 | 1.63 | -2.71E+03 | 2.73E+03 | -2.66E+03 | 2.67E+03 | -5.32E+04 | 5.35E+04 |
| 1/15 | 2.18 | -3.62E+03 | 3.64E+03 | -3.55E+03 | 3.57E+03 | -5.33E+04 | 5.35E+04 |
| 1/10 | 3.27 | -5.42E+03 | 5.46E+03 | -5.33E+03 | 5.36E+03 | -5.33E+04 | 5.35E+04 |

Table Q-1474. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.543 | -901. | 906. | -884. | 889. | -5.31E+04 | 5.33E+04 |
| 1/20 | 1.63 | -2.71E+03 | 2.73E+03 | -2.66E+03 | 2.67E+03 | -5.32E+04 | 5.35E+04 |
| 1/15 | 2.18 | -3.62E+03 | 3.64E+03 | -3.55E+03 | 3.57E+03 | -5.33E+04 | 5.35E+04 |
| 1/10 | 3.27 | -5.42E+03 | 5.46E+03 | -5.33E+03 | 5.36E+03 | -5.33E+04 | 5.35E+04 |

Table Q-1475. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.450 | -1.06E+03 | 1.06E+03 | -1.05E+03 | 1.05E+03 | -6.31E+04 | 6.31E+04 |
| 1/20 | -1.35 | -3.19E+03 | 3.19E+03 | -3.15E+03 | 3.15E+03 | -6.31E+04 | 6.31E+04 |
| 1/15 | -1.80 | -4.25E+03 | 4.25E+03 | -4.21E+03 | 4.20E+03 | -6.31E+04 | 6.31E+04 |
| 1/10 | -2.70 | -6.37E+03 | 6.37E+03 | -6.31E+03 | 6.31E+03 | -6.31E+04 | 6.31E+04 |

Table Q-1476. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -179. | -1.24E+03 | 1.04E+03 | -1.24E+03 | 1.03E+03 | -6.36E+04 | 7.28E+04 |
| 1/20 | -1.61E+03 | -4.59E+03 | 2.57E+03 | -4.57E+03 | 2.54E+03 | -5.93E+04 | 8.30E+04 |
| 1/15 | -2.86E+03 | -6.89E+03 | 3.07E+03 | -6.87E+03 | 3.03E+03 | -6.02E+04 | 8.83E+04 |
| 1/10 | -6.42E+03 | -1.30E+04 | 3.54E+03 | -1.30E+04 | 3.47E+03 | -6.54E+04 | 9.89E+04 |

Table Q-1477. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -179. | -1.24E+03 | 1.04E+03 | -1.24E+03 | 1.04E+03 | -6.35E+04 | 7.29E+04 |
| 1/20 | -1.61E+03 | -4.55E+03 | 2.58E+03 | -4.54E+03 | 2.55E+03 | -5.87E+04 | 8.32E+04 |
| 1/15 | -2.86E+03 | -6.83E+03 | 3.08E+03 | -6.81E+03 | 3.04E+03 | -5.94E+04 | 8.84E+04 |
| 1/10 | -6.42E+03 | -1.29E+04 | 3.56E+03 | -1.29E+04 | 3.49E+03 | -6.45E+04 | 9.91E+04 |

Table Q-1478. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 105. | -972. | 1.43E+03 | -898. | 1.39E+03 | -6.02E+04 | 7.70E+04 |
| 1/20 | 919. | -3.46E+03 | 6.87E+03 | -2.93E+03 | 6.03E+03 | -7.70E+04 | 1.02E+05 |
| 1/15 | 1.82E+03 | -5.62E+03 | 9.80E+03 | -4.48E+03 | 9.20E+03 | -9.46E+04 | 1.11E+05 |
| 1/10 | 3.83E+03 | -1.26E+04 | 2.10E+04 | -9.78E+03 | 1.98E+04 | -1.36E+05 | 1.60E+05 |

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Table Q-1479. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1480. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 145. | -617. | 851. | -539. | 840. | -4.10E+04 | 4.17E+04 |
| 1/20 | 1.21E+03 | -2.79E+03 | 4.08E+03 | -2.14E+03 | 3.93E+03 | -6.70E+04 | 5.45E+04 |
| 1/15 | 2.08E+03 | -3.30E+03 | 6.65E+03 | -3.09E+03 | 6.53E+03 | -7.77E+04 | 6.66E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

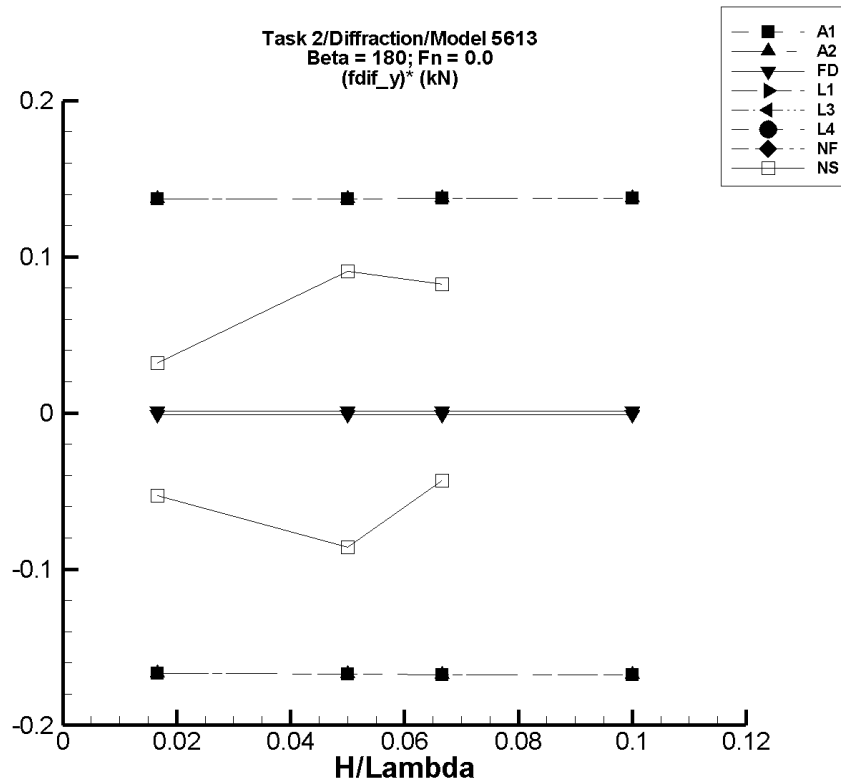


Figure Q-186. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1481. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.97E-05 | -2.81E-03 | 2.44E-03 | -2.75E-03 | 2.31E-03 | -0.167 | 0.137 |
| 1/20 | 8.95E-05 | -8.45E-03 | 7.35E-03 | -8.27E-03 | 6.95E-03 | -0.167 | 0.137 |
| 1/15 | 1.19E-04 | -1.13E-02 | 9.81E-03 | -1.10E-02 | 9.28E-03 | -0.167 | 0.137 |
| 1/10 | 1.79E-04 | -1.69E-02 | 1.47E-02 | -1.66E-02 | 1.39E-02 | -0.167 | 0.137 |

Table Q–1482. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 2.97E-05 | -2.81E-03 | 2.44E-03 | -2.75E-03 | 2.31E-03 | -0.167 | 0.137 |
| 1/20 | 8.95E-05 | -8.45E-03 | 7.35E-03 | -8.27E-03 | 6.95E-03 | -0.167 | 0.137 |
| 1/15 | 1.19E-04 | -1.13E-02 | 9.81E-03 | -1.10E-02 | 9.28E-03 | -0.167 | 0.137 |
| 1/10 | 1.79E-04 | -1.69E-02 | 1.47E-02 | -1.66E-02 | 1.39E-02 | -0.167 | 0.137 |

Table Q-1483. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.00E-08 | -2.18E-05 | 2.18E-05 | -2.16E-05 | 2.16E-05 | -1.29E-03 | 1.29E-03 |
| 1/20 | 3.01E-08 | -6.54E-05 | 6.54E-05 | -6.47E-05 | 6.47E-05 | -1.29E-03 | 1.29E-03 |
| 1/15 | 4.01E-08 | -8.72E-05 | 8.72E-05 | -8.63E-05 | 8.63E-05 | -1.29E-03 | 1.29E-03 |
| 1/10 | 6.02E-08 | -1.31E-04 | 1.31E-04 | -1.29E-04 | 1.29E-04 | -1.29E-03 | 1.29E-03 |

Table Q-1484. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1485. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1486. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1487. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1488. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.70E-05 | -2.22E-03 | 1.69E-03 | -9.06E-04 | 5.09E-04 | -5.27E-02 | 3.21E-02 |
| 1/20 | 7.05E-05 | -1.14E-02 | 9.10E-03 | -4.23E-03 | 4.60E-03 | -8.60E-02 | 9.07E-02 |
| 1/15 | -2.07E-04 | -7.47E-02 | 7.31E-02 | -3.10E-03 | 5.28E-03 | -4.34E-02 | 8.23E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

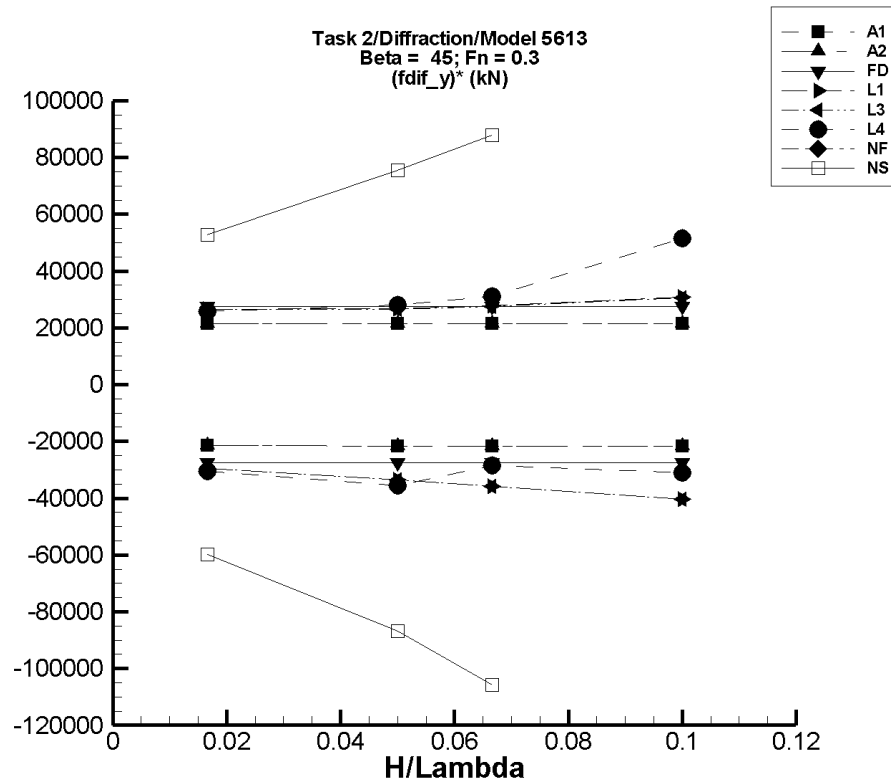


Figure Q-187. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1489. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.470 | -361. | 361. | -358. | 358. | -2.15E+04 | 2.14E+04 |
| 1/20 | 1.41 | -1.09E+03 | 1.08E+03 | -1.08E+03 | 1.08E+03 | -2.16E+04 | 2.15E+04 |
| 1/15 | 1.89 | -1.45E+03 | 1.45E+03 | -1.44E+03 | 1.44E+03 | -2.16E+04 | 2.15E+04 |
| 1/10 | 2.83 | -2.18E+03 | 2.17E+03 | -2.16E+03 | 2.15E+03 | -2.16E+04 | 2.15E+04 |

Table Q-1490. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.470 | -361. | 361. | -358. | 358. | -2.15E+04 | 2.14E+04 |
| 1/20 | 1.41 | -1.09E+03 | 1.08E+03 | -1.08E+03 | 1.08E+03 | -2.16E+04 | 2.15E+04 |
| 1/15 | 1.89 | -1.45E+03 | 1.45E+03 | -1.44E+03 | 1.44E+03 | -2.16E+04 | 2.15E+04 |
| 1/10 | 2.83 | -2.18E+03 | 2.17E+03 | -2.16E+03 | 2.15E+03 | -2.16E+04 | 2.15E+04 |

Table Q-1491. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.113 | -459. | 459. | -458. | 458. | -2.75E+04 | 2.75E+04 |
| 1/20 | 0.340 | -1.38E+03 | 1.38E+03 | -1.37E+03 | 1.37E+03 | -2.75E+04 | 2.75E+04 |
| 1/15 | 0.453 | -1.84E+03 | 1.84E+03 | -1.83E+03 | 1.83E+03 | -2.75E+04 | 2.75E+04 |
| 1/10 | 0.679 | -2.75E+03 | 2.75E+03 | -2.75E+03 | 2.75E+03 | -2.75E+04 | 2.75E+04 |

Table Q-1492. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -196. | -688. | 248. | -687. | 247. | -2.95E+04 | 2.66E+04 |
| 1/20 | -1.76E+03 | -3.45E+03 | -429. | -3.44E+03 | -427. | -3.36E+04 | 2.67E+04 |
| 1/15 | -3.13E+03 | -5.52E+03 | -1.28E+03 | -5.52E+03 | -1.28E+03 | -3.59E+04 | 2.77E+04 |
| 1/10 | -7.05E+03 | -1.11E+04 | -3.95E+03 | -1.11E+04 | -3.96E+03 | -4.04E+04 | 3.09E+04 |

Table Q-1493. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -196. | -687. | 246. | -687. | 246. | -2.95E+04 | 2.65E+04 |
| 1/20 | -1.76E+03 | -3.45E+03 | -436. | -3.44E+03 | -435. | -3.36E+04 | 2.65E+04 |
| 1/15 | -3.13E+03 | -5.53E+03 | -1.29E+03 | -5.52E+03 | -1.30E+03 | -3.59E+04 | 2.75E+04 |
| 1/10 | -7.05E+03 | -1.11E+04 | -3.97E+03 | -1.11E+04 | -3.98E+03 | -4.04E+04 | 3.07E+04 |

Table Q-1494. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 25.5 | -649. | 573. | -482. | 456. | -3.05E+04 | 2.58E+04 |
| 1/20 | 554. | -2.03E+03 | 2.09E+03 | -1.22E+03 | 1.96E+03 | -3.56E+04 | 2.80E+04 |
| 1/15 | 1.29E+03 | -4.15E+03 | 3.82E+03 | -603. | 3.36E+03 | -2.84E+04 | 3.11E+04 |
| 1/10 | 3.02E+03 | -3.37E+03 | 2.00E+04 | -71.2 | 8.18E+03 | -3.09E+04 | 5.15E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1495. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1496. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 72.9 | -933. | 977. | -923. | 951. | -5.98E+04 | 5.27E+04 |
| 1/20 | 653. | -3.74E+03 | 4.77E+03 | -3.68E+03 | 4.43E+03 | -8.67E+04 | 7.55E+04 |
| 1/15 | 1.10E+03 | -6.01E+03 | 7.68E+03 | -5.94E+03 | 6.97E+03 | -1.06E+05 | 8.80E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

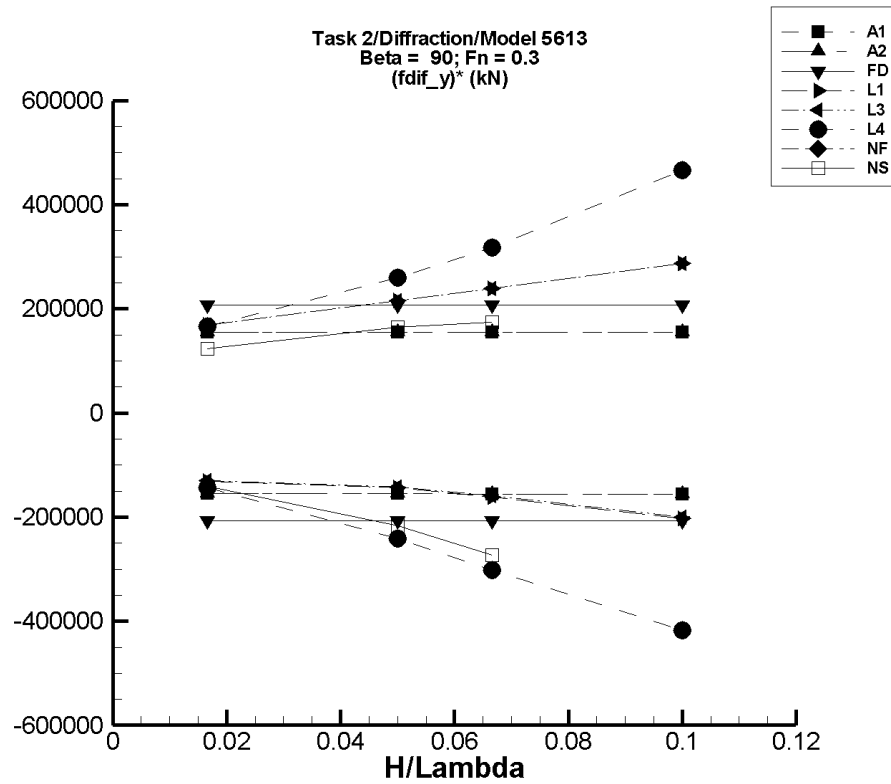


Figure Q-188. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1497. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.555 | -2.61E+03 | 2.61E+03 | -2.58E+03 | 2.58E+03 | -1.55E+05 | 1.55E+05 |
| 1/20 | -1.67 | -7.85E+03 | 7.85E+03 | -7.76E+03 | 7.76E+03 | -1.55E+05 | 1.55E+05 |
| 1/15 | -2.23 | -1.05E+04 | 1.05E+04 | -1.04E+04 | 1.04E+04 | -1.55E+05 | 1.55E+05 |
| 1/10 | -3.34 | -1.57E+04 | 1.57E+04 | -1.55E+04 | 1.55E+04 | -1.55E+05 | 1.55E+05 |

Table Q–1498. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.555 | -2.61E+03 | 2.61E+03 | -2.58E+03 | 2.58E+03 | -1.55E+05 | 1.55E+05 |
| 1/20 | -1.67 | -7.85E+03 | 7.85E+03 | -7.76E+03 | 7.76E+03 | -1.55E+05 | 1.55E+05 |
| 1/15 | -2.23 | -1.05E+04 | 1.05E+04 | -1.04E+04 | 1.04E+04 | -1.55E+05 | 1.55E+05 |
| 1/10 | -3.34 | -1.57E+04 | 1.57E+04 | -1.55E+04 | 1.55E+04 | -1.55E+05 | 1.55E+05 |

Table Q–1499. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -0.927 | -3.50E+03 | 3.50E+03 | -3.46E+03 | 3.46E+03 | -2.08E+05 | 2.08E+05 |
| 1/20 | -2.78 | -1.05E+04 | 1.05E+04 | -1.04E+04 | 1.04E+04 | -2.08E+05 | 2.08E+05 |
| 1/15 | -3.71 | -1.40E+04 | 1.40E+04 | -1.38E+04 | 1.38E+04 | -2.08E+05 | 2.08E+05 |
| 1/10 | -5.56 | -2.10E+04 | 2.10E+04 | -2.08E+04 | 2.08E+04 | -2.08E+05 | 2.08E+05 |

Table Q–1500. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -213. | -2.41E+03 | 2.61E+03 | -2.40E+03 | 2.60E+03 | -1.31E+05 | 1.69E+05 |
| 1/20 | -1.92E+03 | -9.18E+03 | 8.93E+03 | -9.13E+03 | 8.85E+03 | -1.44E+05 | 2.15E+05 |
| 1/15 | -3.40E+03 | -1.43E+04 | 1.27E+04 | -1.42E+04 | 1.25E+04 | -1.62E+05 | 2.39E+05 |
| 1/10 | -7.66E+03 | -2.81E+04 | 2.13E+04 | -2.79E+04 | 2.10E+04 | -2.03E+05 | 2.87E+05 |

Table Q–1501. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -213. | -2.39E+03 | 2.61E+03 | -2.38E+03 | 2.60E+03 | -1.30E+05 | 1.69E+05 |
| 1/20 | -1.92E+03 | -9.05E+03 | 8.94E+03 | -9.00E+03 | 8.86E+03 | -1.42E+05 | 2.15E+05 |
| 1/15 | -3.40E+03 | -1.41E+04 | 1.27E+04 | -1.40E+04 | 1.25E+04 | -1.59E+05 | 2.39E+05 |
| 1/10 | -7.66E+03 | -2.79E+04 | 2.13E+04 | -2.77E+04 | 2.10E+04 | -2.00E+05 | 2.87E+05 |

Table Q–1502. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 202. | -2.39E+03 | 3.25E+03 | -2.20E+03 | 2.97E+03 | -1.44E+05 | 1.66E+05 |
| 1/20 | 1.91E+03 | -1.03E+04 | 1.50E+04 | -1.01E+04 | 1.49E+04 | -2.41E+05 | 2.60E+05 |
| 1/15 | 3.63E+03 | -1.69E+04 | 2.52E+04 | -1.65E+04 | 2.48E+04 | -3.02E+05 | 3.17E+05 |
| 1/10 | 8.16E+03 | -3.42E+04 | 5.57E+04 | -3.36E+04 | 5.47E+04 | -4.17E+05 | 4.66E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1503. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1504. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 84.1 | -2.36E+03 | 2.15E+03 | -2.28E+03 | 2.15E+03 | -1.42E+05 | 1.24E+05 |
| 1/20 | 484. | -1.18E+04 | 9.65E+03 | -1.03E+04 | 8.69E+03 | -2.16E+05 | 1.64E+05 |
| 1/15 | 273. | -1.86E+04 | 1.24E+04 | -1.79E+04 | 1.19E+04 | -2.73E+05 | 1.74E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

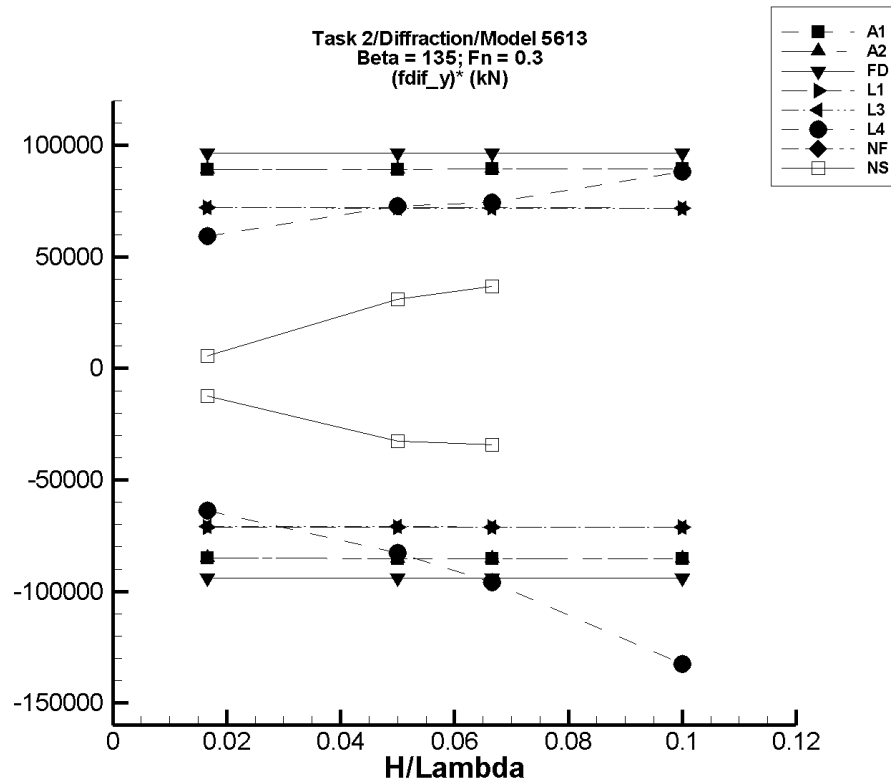


Figure Q-189. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1505. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.347 | -1.45E+03 | 1.48E+03 | -1.42E+03 | 1.48E+03 | -8.51E+04 | 8.90E+04 |
| 1/20 | 1.04 | -4.36E+03 | 4.44E+03 | -4.26E+03 | 4.46E+03 | -8.53E+04 | 8.92E+04 |
| 1/15 | 1.39 | -5.83E+03 | 5.93E+03 | -5.69E+03 | 5.95E+03 | -8.54E+04 | 8.93E+04 |
| 1/10 | 2.09 | -8.74E+03 | 8.90E+03 | -8.54E+03 | 8.93E+03 | -8.54E+04 | 8.93E+04 |

Table Q–1506. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------|----------------------|---------------------------------------------------|----------------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 0.347 | -1.45E+03 | 1.48E+03 | -1.42E+03 | 1.48E+03 | -8.51E+04 | 8.90E+04 |
| 1/20 | 1.04 | -4.36E+03 | 4.44E+03 | -4.26E+03 | 4.46E+03 | -8.53E+04 | 8.92E+04 |
| 1/15 | 1.39 | -5.83E+03 | 5.93E+03 | -5.69E+03 | 5.95E+03 | -8.54E+04 | 8.93E+04 |
| 1/10 | 2.09 | -8.74E+03 | 8.90E+03 | -8.54E+03 | 8.93E+03 | -8.54E+04 | 8.93E+04 |

Table Q–1507. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.97E-02 | -1.61E+03 | 1.61E+03 | -1.57E+03 | 1.61E+03 | -9.41E+04 | 9.63E+04 |
| 1/20 | 0.179 | -4.82E+03 | 4.82E+03 | -4.71E+03 | 4.82E+03 | -9.41E+04 | 9.63E+04 |
| 1/15 | 0.239 | -6.43E+03 | 6.42E+03 | -6.27E+03 | 6.42E+03 | -9.41E+04 | 9.63E+04 |
| 1/10 | 0.359 | -9.64E+03 | 9.63E+03 | -9.41E+03 | 9.63E+03 | -9.41E+04 | 9.63E+04 |

Table Q–1508. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -124. | -1.32E+03 | 1.07E+03 | -1.31E+03 | 1.08E+03 | -7.11E+04 | 7.22E+04 |
| 1/20 | -1.12E+03 | -4.71E+03 | 2.46E+03 | -4.68E+03 | 2.49E+03 | -7.12E+04 | 7.21E+04 |
| 1/15 | -1.99E+03 | -6.78E+03 | 2.77E+03 | -6.74E+03 | 2.81E+03 | -7.12E+04 | 7.20E+04 |
| 1/10 | -4.47E+03 | -1.17E+04 | 2.66E+03 | -1.16E+04 | 2.72E+03 | -7.13E+04 | 7.19E+04 |

Table Q–1509. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -124. | -1.32E+03 | 1.07E+03 | -1.31E+03 | 1.08E+03 | -7.09E+04 | 7.20E+04 |
| 1/20 | -1.12E+03 | -4.70E+03 | 2.45E+03 | -4.67E+03 | 2.48E+03 | -7.10E+04 | 7.19E+04 |
| 1/15 | -1.99E+03 | -6.76E+03 | 2.76E+03 | -6.72E+03 | 2.80E+03 | -7.10E+04 | 7.18E+04 |
| 1/10 | -4.47E+03 | -1.16E+04 | 2.65E+03 | -1.16E+04 | 2.70E+03 | -7.11E+04 | 7.17E+04 |

Table Q–1510. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 131. | -957. | 1.28E+03 | -931. | 1.12E+03 | -6.38E+04 | 5.92E+04 |
| 1/20 | 1.43E+03 | -2.90E+03 | 7.42E+03 | -2.71E+03 | 5.07E+03 | -8.27E+04 | 7.28E+04 |
| 1/15 | 2.85E+03 | -4.29E+03 | 8.63E+03 | -3.55E+03 | 7.79E+03 | -9.59E+04 | 7.42E+04 |
| 1/10 | 6.79E+03 | -1.04E+04 | 1.64E+04 | -6.48E+03 | 1.56E+04 | -1.33E+05 | 8.80E+04 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1511. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1512. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 80.1 | -162. | 200. | -127. | 174. | -1.24E+04 | 5.65E+03 |
| 1/20 | 510. | -1.46E+03 | 2.51E+03 | -1.13E+03 | 2.05E+03 | -3.27E+04 | 3.08E+04 |
| 1/15 | 889. | -2.05E+03 | 3.86E+03 | -1.39E+03 | 3.34E+03 | -3.42E+04 | 3.68E+04 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

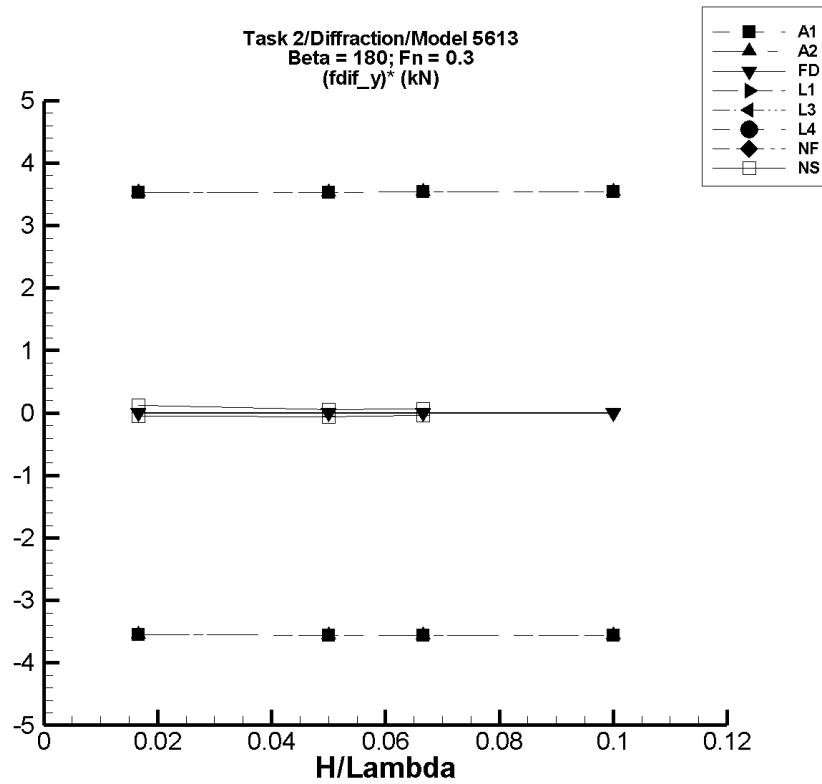


Figure Q-190. Minimum and maximum of filtered $(F_y^{\text{dif}} - \langle F_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1513. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.96E-04 | -6.12E-02 | 6.08E-02 | -5.90E-02 | 5.89E-02 | -3.55 | 3.52 |
| 1/20 | 5.91E-04 | -0.184 | 0.183 | -0.177 | 0.177 | -3.56 | 3.53 |
| 1/15 | 7.89E-04 | -0.246 | 0.244 | -0.237 | 0.237 | -3.57 | 3.54 |
| 1/10 | 1.18E-03 | -0.369 | 0.366 | -0.355 | 0.355 | -3.57 | 3.54 |

Table Q–1514. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 1.96E-04 | -6.12E-02 | 6.08E-02 | -5.90E-02 | 5.89E-02 | -3.55 | 3.52 |
| 1/20 | 5.91E-04 | -0.184 | 0.183 | -0.177 | 0.177 | -3.56 | 3.53 |
| 1/15 | 7.89E-04 | -0.246 | 0.244 | -0.237 | 0.237 | -3.57 | 3.54 |
| 1/10 | 1.18E-03 | -0.369 | 0.366 | -0.355 | 0.355 | -3.57 | 3.54 |

Table Q–1515. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 5.04E-08 | -5.15E-05 | 5.16E-05 | -5.00E-05 | 5.00E-05 | -3.00E-03 | 3.00E-03 |
| 1/20 | 1.51E-07 | -1.55E-04 | 1.55E-04 | -1.50E-04 | 1.50E-04 | -3.00E-03 | 3.00E-03 |
| 1/15 | 2.02E-07 | -2.06E-04 | 2.06E-04 | -2.00E-04 | 2.00E-04 | -3.00E-03 | 3.00E-03 |
| 1/10 | 3.02E-07 | -3.09E-04 | 3.10E-04 | -3.00E-04 | 3.00E-04 | -3.00E-03 | 3.00E-03 |

Table Q–1516. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1517. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1518. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1519. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1520. Minimum and Maximum of Variables F_y^{dif} and $(F_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_y^{\text{dif}} \rangle$ | Unfiltered F_y^{dif} | | Filtered F_y^{dif} | | Filtered $(F_y^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 4.81E-05 | -1.67E-02 | 1.45E-02 | -8.33E-04 | 2.05E-03 | -5.29E-02 | 0.120 |
| 1/20 | 1.67E-04 | -1.23E-02 | 1.25E-02 | -3.06E-03 | 2.63E-03 | -6.46E-02 | 4.92E-02 |
| 1/15 | 4.46E-04 | -3.63E-02 | 3.16E-02 | -1.86E-03 | 4.77E-03 | -3.46E-02 | 6.49E-02 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

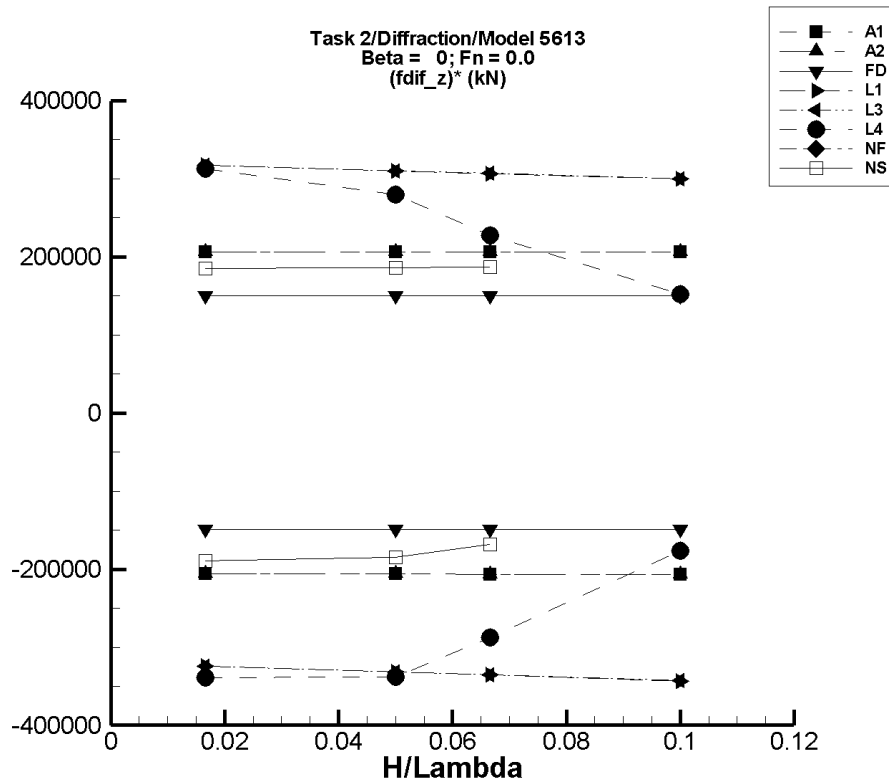


Figure Q-191. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1521. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -11.6 | -3.47E+03 | 3.45E+03 | -3.44E+03 | 3.42E+03 | -2.06E+05 | 2.06E+05 |
| 1/20 | -34.9 | -1.05E+04 | 1.04E+04 | -1.03E+04 | 1.03E+04 | -2.06E+05 | 2.06E+05 |
| 1/15 | -46.6 | -1.40E+04 | 1.39E+04 | -1.38E+04 | 1.37E+04 | -2.07E+05 | 2.07E+05 |
| 1/10 | -69.8 | -2.09E+04 | 2.08E+04 | -2.07E+04 | 2.06E+04 | -2.07E+05 | 2.07E+05 |

Table Q-1522. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -11.6 | -3.47E+03 | 3.45E+03 | -3.44E+03 | 3.42E+03 | -2.06E+05 | 2.06E+05 |
| 1/20 | -34.9 | -1.05E+04 | 1.04E+04 | -1.03E+04 | 1.03E+04 | -2.06E+05 | 2.06E+05 |
| 1/15 | -46.6 | -1.40E+04 | 1.39E+04 | -1.38E+04 | 1.37E+04 | -2.07E+05 | 2.07E+05 |
| 1/10 | -69.8 | -2.09E+04 | 2.08E+04 | -2.07E+04 | 2.06E+04 | -2.07E+05 | 2.07E+05 |

Table Q-1523. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -0.866 | -2.51E+03 | 2.51E+03 | -2.48E+03 | 2.51E+03 | -1.49E+05 | 1.51E+05 |
| 1/20 | -2.60 | -7.52E+03 | 7.52E+03 | -7.44E+03 | 7.52E+03 | -1.49E+05 | 1.51E+05 |
| 1/15 | -3.47 | -1.00E+04 | 1.00E+04 | -9.92E+03 | 1.00E+04 | -1.49E+05 | 1.51E+05 |
| 1/10 | -5.20 | -1.50E+04 | 1.50E+04 | -1.49E+04 | 1.50E+04 | -1.49E+05 | 1.51E+05 |

Table Q–1524. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -289. | -5.72E+03 | 5.02E+03 | -5.70E+03 | 5.00E+03 | -3.24E+05 | 3.18E+05 |
| 1/20 | -2.57E+03 | -1.92E+04 | 1.30E+04 | -1.92E+04 | 1.29E+04 | -3.32E+05 | 3.10E+05 |
| 1/15 | -4.57E+03 | -2.70E+04 | 1.59E+04 | -2.69E+04 | 1.59E+04 | -3.36E+05 | 3.07E+05 |
| 1/10 | -1.03E+04 | -4.47E+04 | 1.98E+04 | -4.46E+04 | 1.97E+04 | -3.43E+05 | 2.99E+05 |

Table Q–1525. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -289. | -5.71E+03 | 5.02E+03 | -5.69E+03 | 5.00E+03 | -3.24E+05 | 3.18E+05 |
| 1/20 | -2.57E+03 | -1.92E+04 | 1.30E+04 | -1.92E+04 | 1.29E+04 | -3.32E+05 | 3.10E+05 |
| 1/15 | -4.57E+03 | -2.70E+04 | 1.60E+04 | -2.69E+04 | 1.59E+04 | -3.35E+05 | 3.07E+05 |
| 1/10 | -1.03E+04 | -4.47E+04 | 1.98E+04 | -4.45E+04 | 1.97E+04 | -3.43E+05 | 3.00E+05 |

Table Q–1526. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -383. | -6.08E+03 | 4.86E+03 | -6.03E+03 | 4.84E+03 | -3.39E+05 | 3.13E+05 |
| 1/20 | -3.26E+03 | -2.02E+04 | 1.09E+04 | -2.01E+04 | 1.07E+04 | -3.38E+05 | 2.80E+05 |
| 1/15 | -6.12E+03 | -2.58E+04 | 1.01E+04 | -2.53E+04 | 9.03E+03 | -2.87E+05 | 2.27E+05 |
| 1/10 | -1.14E+04 | -3.14E+04 | 5.98E+03 | -2.91E+04 | 3.81E+03 | -1.77E+05 | 1.52E+05 |

Table Q–1527. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1528. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -400. | -3.58E+03 | 2.73E+03 | -3.55E+03 | 2.69E+03 | -1.89E+05 | 1.85E+05 |
| 1/20 | -3.60E+03 | -1.31E+04 | 5.99E+03 | -1.28E+04 | 5.68E+03 | -1.84E+05 | 1.86E+05 |
| 1/15 | -5.99E+03 | -1.76E+04 | 6.98E+03 | -1.72E+04 | 6.48E+03 | -1.68E+05 | 1.87E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

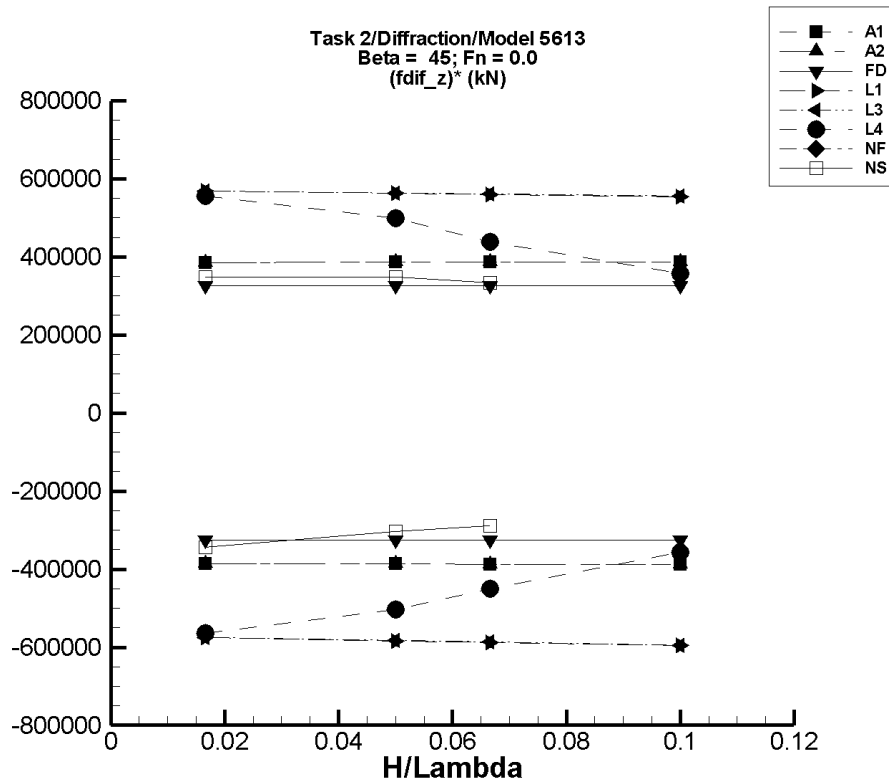


Figure Q-192. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1529. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -16.1 | -6.51E+03 | 6.48E+03 | -6.45E+03 | 6.41E+03 | -3.86E+05 | 3.86E+05 |
| 1/20 | -48.3 | -1.96E+04 | 1.95E+04 | -1.94E+04 | 1.93E+04 | -3.87E+05 | 3.87E+05 |
| 1/15 | -64.5 | -2.62E+04 | 2.60E+04 | -2.59E+04 | 2.57E+04 | -3.87E+05 | 3.87E+05 |
| 1/10 | -96.8 | -3.92E+04 | 3.90E+04 | -3.88E+04 | 3.86E+04 | -3.87E+05 | 3.87E+05 |

Table Q–1530. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -16.1 | -6.51E+03 | 6.48E+03 | -6.45E+03 | 6.41E+03 | -3.86E+05 | 3.86E+05 |
| 1/20 | -48.3 | -1.96E+04 | 1.95E+04 | -1.94E+04 | 1.93E+04 | -3.87E+05 | 3.87E+05 |
| 1/15 | -64.5 | -2.62E+04 | 2.60E+04 | -2.59E+04 | 2.57E+04 | -3.87E+05 | 3.87E+05 |
| 1/10 | -96.8 | -3.92E+04 | 3.90E+04 | -3.88E+04 | 3.86E+04 | -3.87E+05 | 3.87E+05 |

Table Q–1531. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.31 | -5.50E+03 | 5.49E+03 | -5.44E+03 | 5.44E+03 | -3.26E+05 | 3.26E+05 |
| 1/20 | -6.94 | -1.65E+04 | 1.65E+04 | -1.63E+04 | 1.63E+04 | -3.26E+05 | 3.26E+05 |
| 1/15 | -9.25 | -2.20E+04 | 2.20E+04 | -2.18E+04 | 2.18E+04 | -3.26E+05 | 3.26E+05 |
| 1/10 | -13.9 | -3.30E+04 | 3.30E+04 | -3.26E+04 | 3.26E+04 | -3.26E+05 | 3.26E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1532. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -518. | -1.02E+04 | 9.00E+03 | -1.01E+04 | 8.97E+03 | -5.76E+05 | 5.69E+05 |
| 1/20 | -4.63E+03 | -3.39E+04 | 2.36E+04 | -3.38E+04 | 2.35E+04 | -5.84E+05 | 5.63E+05 |
| 1/15 | -8.22E+03 | -4.76E+04 | 2.92E+04 | -4.74E+04 | 2.91E+04 | -5.88E+05 | 5.60E+05 |
| 1/10 | -1.85E+04 | -7.83E+04 | 3.71E+04 | -7.81E+04 | 3.69E+04 | -5.96E+05 | 5.54E+05 |

Table Q-1533. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -518. | -1.01E+04 | 9.00E+03 | -1.01E+04 | 8.97E+03 | -5.76E+05 | 5.69E+05 |
| 1/20 | -4.63E+03 | -3.39E+04 | 2.36E+04 | -3.38E+04 | 2.35E+04 | -5.83E+05 | 5.63E+05 |
| 1/15 | -8.22E+03 | -4.75E+04 | 2.93E+04 | -4.73E+04 | 2.91E+04 | -5.87E+05 | 5.60E+05 |
| 1/10 | -1.85E+04 | -7.82E+04 | 3.72E+04 | -7.80E+04 | 3.70E+04 | -5.95E+05 | 5.55E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1534. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -607. | -1.01E+04 | 8.68E+03 | -1.00E+04 | 8.64E+03 | -5.65E+05 | 5.55E+05 |
| 1/20 | -5.06E+03 | -3.05E+04 | 2.01E+04 | -3.02E+04 | 1.99E+04 | -5.04E+05 | 4.99E+05 |
| 1/15 | -8.71E+03 | -3.90E+04 | 2.10E+04 | -3.88E+04 | 2.05E+04 | -4.51E+05 | 4.39E+05 |
| 1/10 | -1.52E+04 | -5.21E+04 | 2.50E+04 | -5.09E+04 | 2.05E+04 | -3.57E+05 | 3.57E+05 |

Table Q–1535. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1536. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -488. | -6.28E+03 | 5.39E+03 | -6.21E+03 | 5.32E+03 | -3.43E+05 | 3.48E+05 |
| 1/20 | -4.12E+03 | -1.97E+04 | 1.38E+04 | -1.93E+04 | 1.33E+04 | -3.04E+05 | 3.48E+05 |
| 1/15 | -6.69E+03 | -2.63E+04 | 1.75E+04 | -2.59E+04 | 1.56E+04 | -2.88E+05 | 3.34E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

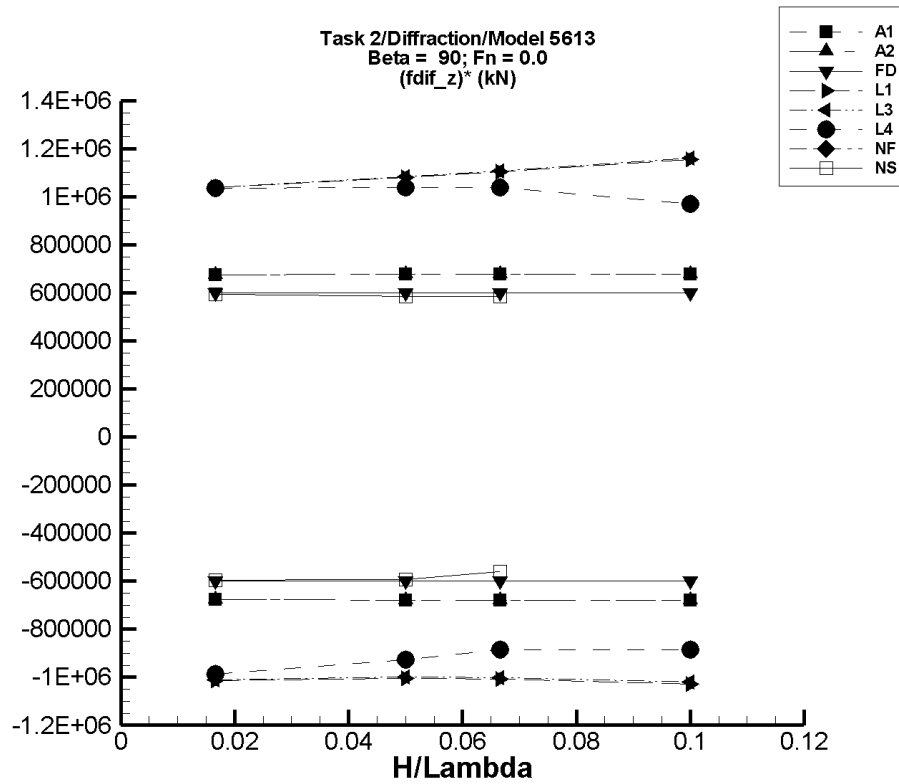


Figure Q–193. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1537. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -15.7 | -1.14E+04 | 1.14E+04 | -1.13E+04 | 1.12E+04 | -6.77E+05 | 6.75E+05 |
| 1/20 | -47.4 | -3.43E+04 | 3.41E+04 | -3.40E+04 | 3.38E+04 | -6.78E+05 | 6.77E+05 |
| 1/15 | -63.2 | -4.58E+04 | 4.56E+04 | -4.53E+04 | 4.51E+04 | -6.79E+05 | 6.78E+05 |
| 1/10 | -94.8 | -6.87E+04 | 6.84E+04 | -6.80E+04 | 6.77E+04 | -6.79E+05 | 6.78E+05 |

Table Q–1538. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -15.7 | -1.14E+04 | 1.14E+04 | -1.13E+04 | 1.12E+04 | -6.77E+05 | 6.75E+05 |
| 1/20 | -47.4 | -3.43E+04 | 3.41E+04 | -3.40E+04 | 3.38E+04 | -6.78E+05 | 6.77E+05 |
| 1/15 | -63.2 | -4.58E+04 | 4.56E+04 | -4.53E+04 | 4.51E+04 | -6.79E+05 | 6.78E+05 |
| 1/10 | -94.8 | -6.87E+04 | 6.84E+04 | -6.80E+04 | 6.77E+04 | -6.79E+05 | 6.78E+05 |

Table Q–1539. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -4.66 | -1.01E+04 | 1.01E+04 | -9.99E+03 | 9.99E+03 | -5.99E+05 | 6.00E+05 |
| 1/20 | -14.0 | -3.03E+04 | 3.03E+04 | -3.00E+04 | 3.00E+04 | -5.99E+05 | 6.00E+05 |
| 1/15 | -18.7 | -4.04E+04 | 4.04E+04 | -4.00E+04 | 4.00E+04 | -5.99E+05 | 6.00E+05 |
| 1/10 | -28.0 | -6.05E+04 | 6.05E+04 | -5.99E+04 | 5.99E+04 | -5.99E+05 | 6.00E+05 |

Table Q–1540. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -850. | -1.78E+04 | 1.65E+04 | -1.77E+04 | 1.65E+04 | -1.01E+06 | 1.04E+06 |
| 1/20 | -7.64E+03 | -5.80E+04 | 4.66E+04 | -5.79E+04 | 4.63E+04 | -1.00E+06 | 1.08E+06 |
| 1/15 | -1.36E+04 | -8.10E+04 | 6.03E+04 | -8.08E+04 | 6.00E+04 | -1.01E+06 | 1.10E+06 |
| 1/10 | -3.06E+04 | -1.34E+05 | 8.57E+04 | -1.33E+05 | 8.51E+04 | -1.03E+06 | 1.16E+06 |

Table Q–1541. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -850. | -1.78E+04 | 1.65E+04 | -1.77E+04 | 1.65E+04 | -1.01E+06 | 1.04E+06 |
| 1/20 | -7.64E+03 | -5.78E+04 | 4.67E+04 | -5.76E+04 | 4.65E+04 | -1.00E+06 | 1.08E+06 |
| 1/15 | -1.36E+04 | -8.06E+04 | 6.06E+04 | -8.04E+04 | 6.02E+04 | -1.00E+06 | 1.11E+06 |
| 1/10 | -3.06E+04 | -1.33E+05 | 8.61E+04 | -1.33E+05 | 8.55E+04 | -1.02E+06 | 1.16E+06 |

Table Q–1542. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -896. | -1.78E+04 | 1.66E+04 | -1.74E+04 | 1.64E+04 | -9.88E+05 | 1.03E+06 |
| 1/20 | -7.26E+03 | -5.41E+04 | 4.51E+04 | -5.36E+04 | 4.46E+04 | -9.27E+05 | 1.04E+06 |
| 1/15 | -1.13E+04 | -7.13E+04 | 5.87E+04 | -7.03E+04 | 5.79E+04 | -8.84E+05 | 1.04E+06 |
| 1/10 | -1.54E+04 | -1.06E+05 | 8.42E+04 | -1.04E+05 | 8.15E+04 | -8.86E+05 | 9.69E+05 |

Table Q–1543. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1544. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -588. | -1.06E+04 | 9.50E+03 | -1.05E+04 | 9.33E+03 | -5.97E+05 | 5.95E+05 |
| 1/20 | -4.69E+03 | -3.56E+04 | 2.70E+04 | -3.43E+04 | 2.46E+04 | -5.92E+05 | 5.86E+05 |
| 1/15 | -7.45E+03 | -4.55E+04 | 3.89E+04 | -4.47E+04 | 3.16E+04 | -5.59E+05 | 5.86E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

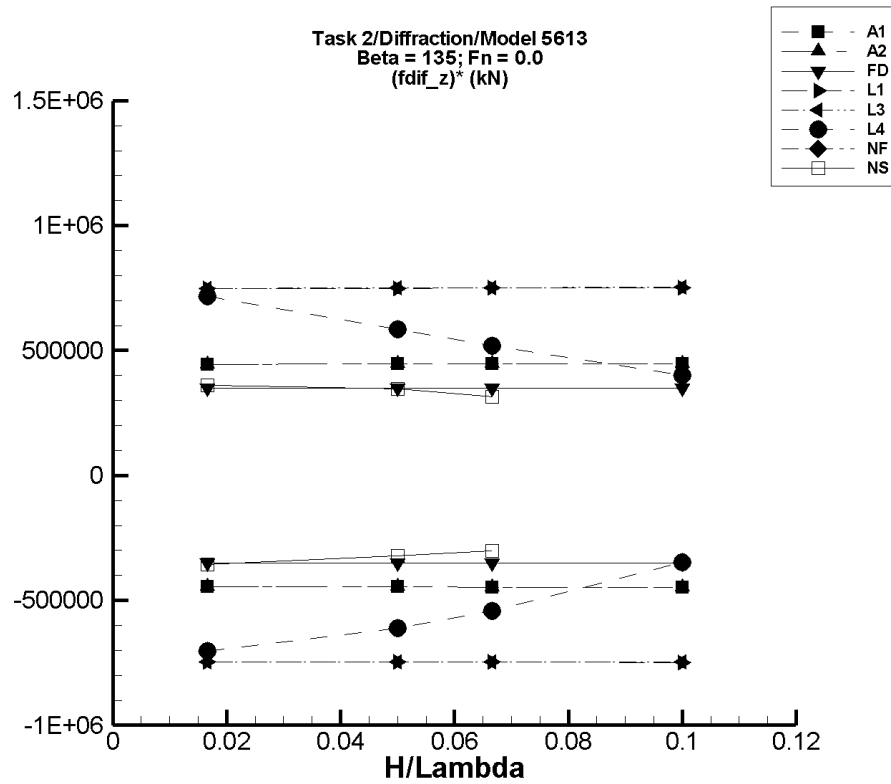


Figure Q-194. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1545. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -11.6 | -7.52E+03 | 7.49E+03 | -7.43E+03 | 7.41E+03 | -4.45E+05 | 4.45E+05 |
| 1/20 | -35.0 | -2.26E+04 | 2.25E+04 | -2.24E+04 | 2.23E+04 | -4.46E+05 | 4.46E+05 |
| 1/15 | -46.8 | -3.02E+04 | 3.01E+04 | -2.98E+04 | 2.97E+04 | -4.47E+05 | 4.47E+05 |
| 1/10 | -70.1 | -4.53E+04 | 4.51E+04 | -4.48E+04 | 4.46E+04 | -4.47E+05 | 4.47E+05 |

Table Q–1546. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -11.6 | -7.52E+03 | 7.49E+03 | -7.43E+03 | 7.41E+03 | -4.45E+05 | 4.45E+05 |
| 1/20 | -35.0 | -2.26E+04 | 2.25E+04 | -2.24E+04 | 2.23E+04 | -4.46E+05 | 4.46E+05 |
| 1/15 | -46.8 | -3.02E+04 | 3.01E+04 | -2.98E+04 | 2.97E+04 | -4.47E+05 | 4.47E+05 |
| 1/10 | -70.1 | -4.53E+04 | 4.51E+04 | -4.48E+04 | 4.46E+04 | -4.47E+05 | 4.47E+05 |

Table Q–1547. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -2.46 | -5.89E+03 | 5.89E+03 | -5.83E+03 | 5.83E+03 | -3.49E+05 | 3.50E+05 |
| 1/20 | -7.39 | -1.77E+04 | 1.77E+04 | -1.75E+04 | 1.75E+04 | -3.49E+05 | 3.50E+05 |
| 1/15 | -9.85 | -2.35E+04 | 2.35E+04 | -2.33E+04 | 2.33E+04 | -3.49E+05 | 3.50E+05 |
| 1/10 | -14.8 | -3.53E+04 | 3.53E+04 | -3.50E+04 | 3.50E+04 | -3.49E+05 | 3.50E+05 |

Table Q–1548. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -576. | -1.31E+04 | 1.19E+04 | -1.30E+04 | 1.19E+04 | -7.46E+05 | 7.48E+05 |
| 1/20 | -5.11E+03 | -4.26E+04 | 3.25E+04 | -4.24E+04 | 3.24E+04 | -7.46E+05 | 7.49E+05 |
| 1/15 | -9.06E+03 | -5.90E+04 | 4.11E+04 | -5.88E+04 | 4.09E+04 | -7.47E+05 | 7.50E+05 |
| 1/10 | -2.04E+04 | -9.54E+04 | 5.51E+04 | -9.51E+04 | 5.49E+04 | -7.48E+05 | 7.52E+05 |

Table Q–1549. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -577. | -1.31E+04 | 1.19E+04 | -1.30E+04 | 1.19E+04 | -7.46E+05 | 7.48E+05 |
| 1/20 | -5.11E+03 | -4.25E+04 | 3.25E+04 | -4.24E+04 | 3.24E+04 | -7.46E+05 | 7.50E+05 |
| 1/15 | -9.06E+03 | -5.90E+04 | 4.12E+04 | -5.88E+04 | 4.10E+04 | -7.46E+05 | 7.51E+05 |
| 1/10 | -2.04E+04 | -9.53E+04 | 5.53E+04 | -9.50E+04 | 5.50E+04 | -7.46E+05 | 7.53E+05 |

Table Q–1550. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -746. | -1.26E+04 | 1.13E+04 | -1.24E+04 | 1.12E+04 | -7.02E+05 | 7.16E+05 |
| 1/20 | -6.62E+03 | -3.75E+04 | 2.28E+04 | -3.72E+04 | 2.26E+04 | -6.11E+05 | 5.85E+05 |
| 1/15 | -1.14E+04 | -4.79E+04 | 2.39E+04 | -4.76E+04 | 2.32E+04 | -5.42E+05 | 5.19E+05 |
| 1/10 | -1.76E+04 | -6.89E+04 | 2.46E+04 | -5.24E+04 | 2.25E+04 | -3.48E+05 | 4.01E+05 |

Table Q–1551. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1552. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -473. | -6.52E+03 | 5.60E+03 | -6.42E+03 | 5.53E+03 | -3.57E+05 | 3.60E+05 |
| 1/20 | -4.05E+03 | -2.07E+04 | 1.39E+04 | -2.02E+04 | 1.33E+04 | -3.23E+05 | 3.48E+05 |
| 1/15 | -6.62E+03 | -2.70E+04 | 1.50E+04 | -2.67E+04 | 1.43E+04 | -3.01E+05 | 3.14E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

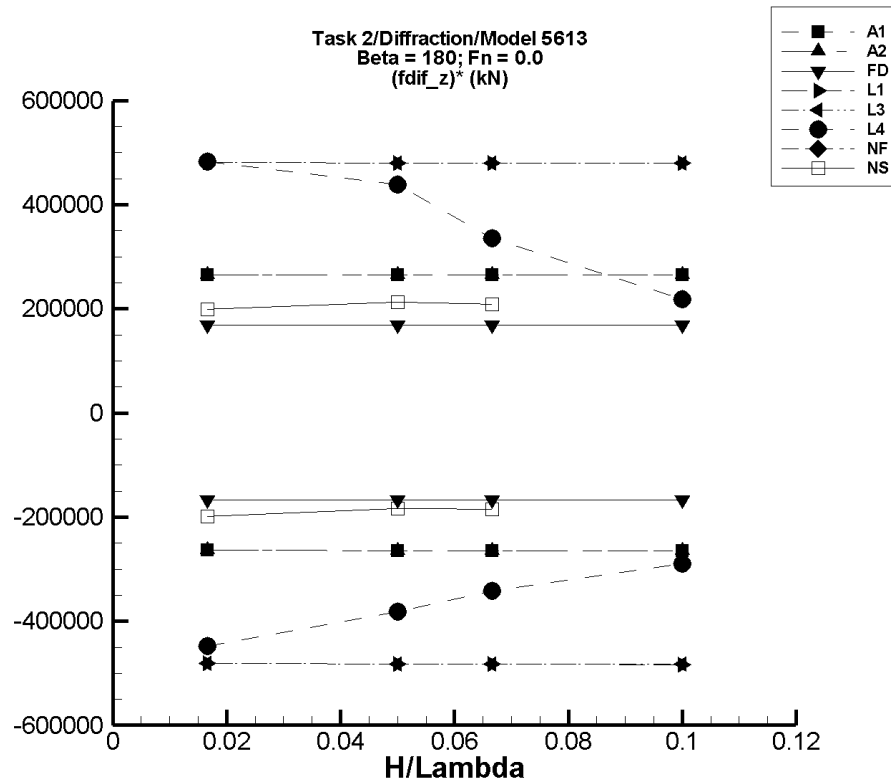


Figure Q-195. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1553. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered $(F_z^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -11.1 | -4.46E+03 | 4.45E+03 | -4.40E+03 | 4.40E+03 | -2.63E+05 | 2.65E+05 |
| 1/20 | -33.3 | -1.34E+04 | 1.34E+04 | -1.32E+04 | 1.32E+04 | -2.64E+05 | 2.65E+05 |
| 1/15 | -44.4 | -1.79E+04 | 1.79E+04 | -1.77E+04 | 1.77E+04 | -2.64E+05 | 2.66E+05 |
| 1/10 | -66.7 | -2.69E+04 | 2.68E+04 | -2.65E+04 | 2.65E+04 | -2.64E+05 | 2.66E+05 |

Table Q–1554. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered $(F_z^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -11.1 | -4.46E+03 | 4.45E+03 | -4.40E+03 | 4.40E+03 | -2.63E+05 | 2.65E+05 |
| 1/20 | -33.3 | -1.34E+04 | 1.34E+04 | -1.32E+04 | 1.32E+04 | -2.64E+05 | 2.65E+05 |
| 1/15 | -44.4 | -1.79E+04 | 1.79E+04 | -1.77E+04 | 1.77E+04 | -2.64E+05 | 2.66E+05 |
| 1/10 | -66.7 | -2.69E+04 | 2.68E+04 | -2.65E+04 | 2.65E+04 | -2.64E+05 | 2.66E+05 |

Table Q–1555. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|----------------------------|------------------------------------|--------------------------|------------------------------------|-------------------------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered $(F_z^{\text{dif}})^*$ Min. (kN) | Max. (kN) |
| 1/60 | -0.985 | -2.82E+03 | 2.82E+03 | -2.79E+03 | 2.82E+03 | -1.68E+05 | 1.69E+05 |
| 1/20 | -2.95 | -8.47E+03 | 8.47E+03 | -8.38E+03 | 8.47E+03 | -1.68E+05 | 1.69E+05 |
| 1/15 | -3.94 | -1.13E+04 | 1.13E+04 | -1.12E+04 | 1.13E+04 | -1.68E+05 | 1.69E+05 |
| 1/10 | -5.91 | -1.69E+04 | 1.69E+04 | -1.68E+04 | 1.69E+04 | -1.68E+05 | 1.69E+05 |

Table Q–1556. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -320. | -8.37E+03 | 7.73E+03 | -8.34E+03 | 7.70E+03 | -4.81E+05 | 4.81E+05 |
| 1/20 | -2.84E+03 | -2.70E+04 | 2.13E+04 | -2.69E+04 | 2.12E+04 | -4.82E+05 | 4.80E+05 |
| 1/15 | -5.03E+03 | -3.73E+04 | 2.71E+04 | -3.72E+04 | 2.70E+04 | -4.82E+05 | 4.80E+05 |
| 1/10 | -1.13E+04 | -5.98E+04 | 3.68E+04 | -5.97E+04 | 3.67E+04 | -4.83E+05 | 4.80E+05 |

Table Q–1557. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -320. | -8.36E+03 | 7.73E+03 | -8.34E+03 | 7.70E+03 | -4.81E+05 | 4.81E+05 |
| 1/20 | -2.84E+03 | -2.70E+04 | 2.13E+04 | -2.69E+04 | 2.12E+04 | -4.82E+05 | 4.81E+05 |
| 1/15 | -5.03E+03 | -3.73E+04 | 2.71E+04 | -3.72E+04 | 2.70E+04 | -4.82E+05 | 4.80E+05 |
| 1/10 | -1.13E+04 | -5.98E+04 | 3.69E+04 | -5.96E+04 | 3.67E+04 | -4.83E+05 | 4.80E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1558. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -496. | -8.02E+03 | 7.57E+03 | -7.95E+03 | 7.54E+03 | -4.47E+05 | 4.82E+05 |
| 1/20 | -4.65E+03 | -2.43E+04 | 1.79E+04 | -2.38E+04 | 1.73E+04 | -3.82E+05 | 4.38E+05 |
| 1/15 | -8.28E+03 | -3.15E+04 | 1.45E+04 | -3.11E+04 | 1.41E+04 | -3.42E+05 | 3.35E+05 |
| 1/10 | -1.33E+04 | -5.89E+04 | 1.22E+04 | -4.23E+04 | 8.54E+03 | -2.90E+05 | 2.19E+05 |

Table Q–1559. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1560. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -389. | -3.76E+03 | 2.99E+03 | -3.70E+03 | 2.93E+03 | -1.99E+05 | 1.99E+05 |
| 1/20 | -3.61E+03 | -1.31E+04 | 8.26E+03 | -1.28E+04 | 7.02E+03 | -1.84E+05 | 2.12E+05 |
| 1/15 | -6.00E+03 | -1.86E+04 | 8.58E+03 | -1.83E+04 | 7.89E+03 | -1.84E+05 | 2.08E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

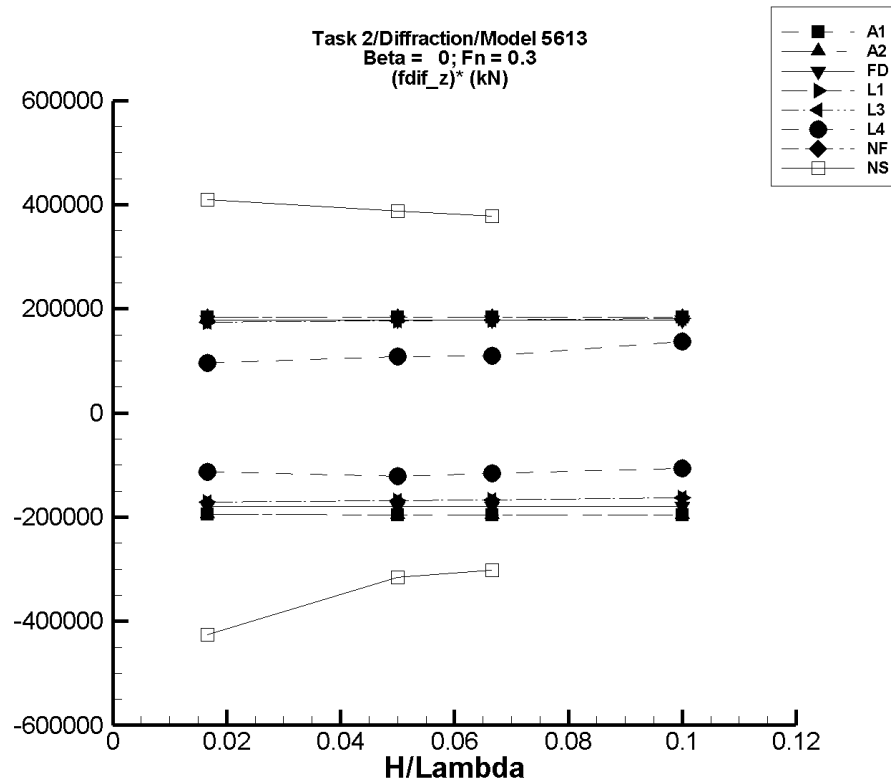


Figure Q-196. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1561. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 9.20 | -3.25E+03 | 3.07E+03 | -3.24E+03 | 3.07E+03 | -1.95E+05 | 1.84E+05 |
| 1/20 | 27.7 | -9.77E+03 | 9.24E+03 | -9.75E+03 | 9.23E+03 | -1.96E+05 | 1.84E+05 |
| 1/15 | 36.9 | -1.30E+04 | 1.23E+04 | -1.30E+04 | 1.23E+04 | -1.96E+05 | 1.84E+05 |
| 1/10 | 55.4 | -1.96E+04 | 1.85E+04 | -1.95E+04 | 1.85E+04 | -1.96E+05 | 1.84E+05 |

Table Q–1562. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | 9.20 | -3.25E+03 | 3.07E+03 | -3.24E+03 | 3.07E+03 | -1.95E+05 | 1.84E+05 |
| 1/20 | 27.7 | -9.77E+03 | 9.24E+03 | -9.75E+03 | 9.23E+03 | -1.96E+05 | 1.84E+05 |
| 1/15 | 36.9 | -1.30E+04 | 1.23E+04 | -1.30E+04 | 1.23E+04 | -1.96E+05 | 1.84E+05 |
| 1/10 | 55.4 | -1.96E+04 | 1.85E+04 | -1.95E+04 | 1.85E+04 | -1.96E+05 | 1.84E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1563. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -8.80E-02 | -2.99E+03 | 2.99E+03 | -2.99E+03 | 2.99E+03 | -1.79E+05 | 1.79E+05 |
| 1/20 | -0.263 | -8.96E+03 | 8.96E+03 | -8.96E+03 | 8.96E+03 | -1.79E+05 | 1.79E+05 |
| 1/15 | -0.352 | -1.19E+04 | 1.19E+04 | -1.19E+04 | 1.19E+04 | -1.79E+05 | 1.79E+05 |
| 1/10 | -0.527 | -1.79E+04 | 1.79E+04 | -1.79E+04 | 1.79E+04 | -1.79E+05 | 1.79E+05 |

Table Q-1564. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.02E+03 | -6.87E+03 | -1.13E+03 | -6.87E+03 | -1.13E+03 | -1.71E+05 | 1.74E+05 |
| 1/20 | -6.36E+03 | -1.48E+04 | 2.50E+03 | -1.47E+04 | 2.49E+03 | -1.68E+05 | 1.77E+05 |
| 1/15 | -8.40E+03 | -1.95E+04 | 3.51E+03 | -1.95E+04 | 3.51E+03 | -1.66E+05 | 1.79E+05 |
| 1/10 | -1.42E+04 | -3.06E+04 | 3.95E+03 | -3.06E+04 | 3.94E+03 | -1.64E+05 | 1.82E+05 |

Table Q–1565. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.02E+03 | -6.87E+03 | -1.12E+03 | -6.87E+03 | -1.13E+03 | -1.71E+05 | 1.74E+05 |
| 1/20 | -6.36E+03 | -1.48E+04 | 2.50E+03 | -1.47E+04 | 2.49E+03 | -1.68E+05 | 1.77E+05 |
| 1/15 | -8.40E+03 | -1.95E+04 | 3.51E+03 | -1.95E+04 | 3.51E+03 | -1.66E+05 | 1.79E+05 |
| 1/10 | -1.42E+04 | -3.06E+04 | 3.95E+03 | -3.06E+04 | 3.94E+03 | -1.64E+05 | 1.82E+05 |

Table Q–1566. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.18E+03 | -6.10E+03 | -2.57E+03 | -6.07E+03 | -2.59E+03 | -1.13E+05 | 9.56E+04 |
| 1/20 | -5.19E+03 | -1.21E+04 | 379. | -1.13E+04 | 240. | -1.22E+05 | 1.09E+05 |
| 1/15 | -6.24E+03 | -1.58E+04 | 1.60E+03 | -1.40E+04 | 1.06E+03 | -1.17E+05 | 1.10E+05 |
| 1/10 | -6.61E+03 | -2.13E+04 | 1.57E+04 | -1.72E+04 | 7.06E+03 | -1.06E+05 | 1.37E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1567. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1568. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | Mean (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -114. | -7.19E+03 | 6.81E+03 | -7.21E+03 | 6.72E+03 | -4.26E+05 | 4.10E+05 |
| 1/20 | -6.95E+03 | -2.28E+04 | 1.28E+04 | -2.28E+04 | 1.24E+04 | -3.16E+05 | 3.88E+05 |
| 1/15 | -1.23E+04 | -3.28E+04 | 1.32E+04 | -3.24E+04 | 1.29E+04 | -3.02E+05 | 3.78E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

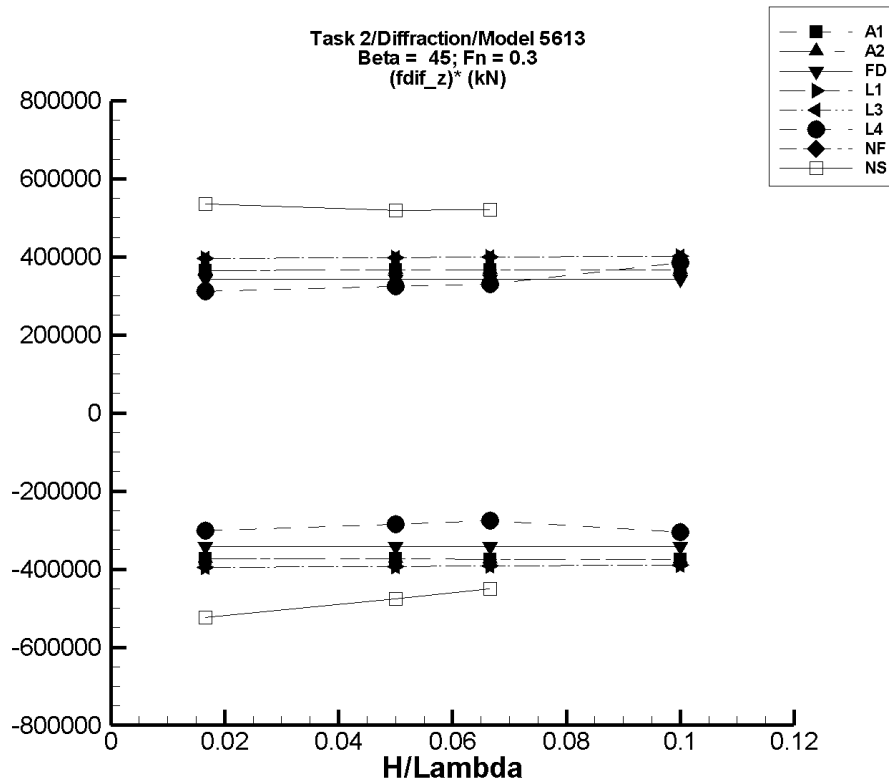


Figure Q-197. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1569. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.53 | -6.24E+03 | 6.10E+03 | -6.22E+03 | 6.09E+03 | -3.73E+05 | 3.66E+05 |
| 1/20 | -19.6 | -1.88E+04 | 1.83E+04 | -1.87E+04 | 1.83E+04 | -3.74E+05 | 3.67E+05 |
| 1/15 | -26.2 | -2.50E+04 | 2.45E+04 | -2.50E+04 | 2.44E+04 | -3.75E+05 | 3.67E+05 |
| 1/10 | -39.3 | -3.76E+04 | 3.67E+04 | -3.75E+04 | 3.67E+04 | -3.75E+05 | 3.67E+05 |

Table Q–1570. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -6.53 | -6.24E+03 | 6.10E+03 | -6.22E+03 | 6.09E+03 | -3.73E+05 | 3.66E+05 |
| 1/20 | -19.6 | -1.88E+04 | 1.83E+04 | -1.87E+04 | 1.83E+04 | -3.74E+05 | 3.67E+05 |
| 1/15 | -26.2 | -2.50E+04 | 2.45E+04 | -2.50E+04 | 2.44E+04 | -3.75E+05 | 3.67E+05 |
| 1/10 | -39.3 | -3.76E+04 | 3.67E+04 | -3.75E+04 | 3.67E+04 | -3.75E+05 | 3.67E+05 |

Table Q–1571. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -1.40 | -5.71E+03 | 5.71E+03 | -5.70E+03 | 5.70E+03 | -3.42E+05 | 3.42E+05 |
| 1/20 | -4.19 | -1.71E+04 | 1.71E+04 | -1.71E+04 | 1.71E+04 | -3.42E+05 | 3.42E+05 |
| 1/15 | -5.59 | -2.29E+04 | 2.29E+04 | -2.28E+04 | 2.28E+04 | -3.42E+05 | 3.42E+05 |
| 1/10 | -8.38 | -3.43E+04 | 3.43E+04 | -3.42E+04 | 3.42E+04 | -3.42E+05 | 3.42E+05 |

Table Q-1572. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.25E+03 | -1.08E+04 | 2.36E+03 | -1.08E+04 | 2.35E+03 | -3.95E+05 | 3.96E+05 |
| 1/20 | -8.41E+03 | -2.81E+04 | 1.15E+04 | -2.80E+04 | 1.15E+04 | -3.93E+05 | 3.98E+05 |
| 1/15 | -1.20E+04 | -3.82E+04 | 1.46E+04 | -3.82E+04 | 1.46E+04 | -3.92E+05 | 3.99E+05 |
| 1/10 | -2.24E+04 | -6.15E+04 | 1.77E+04 | -6.15E+04 | 1.77E+04 | -3.90E+05 | 4.01E+05 |

Table Q-1573. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.25E+03 | -1.08E+04 | 2.36E+03 | -1.08E+04 | 2.35E+03 | -3.95E+05 | 3.96E+05 |
| 1/20 | -8.41E+03 | -2.81E+04 | 1.15E+04 | -2.80E+04 | 1.15E+04 | -3.93E+05 | 3.98E+05 |
| 1/15 | -1.20E+04 | -3.82E+04 | 1.46E+04 | -3.82E+04 | 1.46E+04 | -3.92E+05 | 3.99E+05 |
| 1/10 | -2.24E+04 | -6.15E+04 | 1.77E+04 | -6.15E+04 | 1.77E+04 | -3.90E+05 | 4.01E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1574. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.58E+03 | -9.67E+03 | 650. | -9.61E+03 | 624. | -3.02E+05 | 3.12E+05 |
| 1/20 | -8.44E+03 | -2.35E+04 | 7.85E+03 | -2.27E+04 | 7.77E+03 | -2.86E+05 | 3.24E+05 |
| 1/15 | -1.14E+04 | -3.37E+04 | 1.08E+04 | -2.99E+04 | 1.06E+04 | -2.77E+05 | 3.30E+05 |
| 1/10 | -1.37E+04 | -5.18E+04 | 6.10E+04 | -4.42E+04 | 2.48E+04 | -3.05E+05 | 3.85E+05 |

Table Q–1575. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1576. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -482. | -9.28E+03 | 8.54E+03 | -9.20E+03 | 8.44E+03 | -5.23E+05 | 5.36E+05 |
| 1/20 | -5.06E+03 | -2.93E+04 | 2.11E+04 | -2.88E+04 | 2.09E+04 | -4.76E+05 | 5.19E+05 |
| 1/15 | -8.85E+03 | -3.97E+04 | 2.65E+04 | -3.88E+04 | 2.58E+04 | -4.50E+05 | 5.20E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

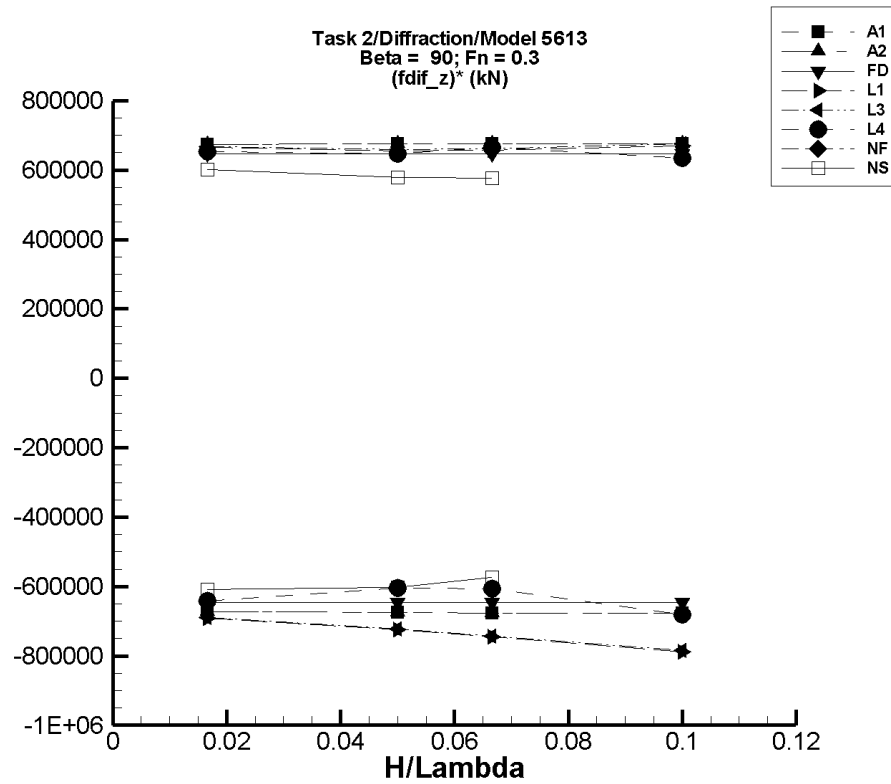


Figure Q-198. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1577. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 122. | -1.12E+04 | 1.15E+04 | -1.11E+04 | 1.14E+04 | -6.73E+05 | 6.74E+05 |
| 1/20 | 368. | -3.37E+04 | 3.45E+04 | -3.34E+04 | 3.42E+04 | -6.75E+05 | 6.76E+05 |
| 1/15 | 491. | -4.50E+04 | 4.61E+04 | -4.46E+04 | 4.56E+04 | -6.76E+05 | 6.77E+05 |
| 1/10 | 736. | -6.75E+04 | 6.91E+04 | -6.69E+04 | 6.84E+04 | -6.76E+05 | 6.77E+05 |

Table Q–1578. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 122. | -1.12E+04 | 1.15E+04 | -1.11E+04 | 1.14E+04 | -6.73E+05 | 6.74E+05 |
| 1/20 | 368. | -3.37E+04 | 3.45E+04 | -3.34E+04 | 3.42E+04 | -6.75E+05 | 6.76E+05 |
| 1/15 | 491. | -4.50E+04 | 4.61E+04 | -4.46E+04 | 4.56E+04 | -6.76E+05 | 6.77E+05 |
| 1/10 | 736. | -6.75E+04 | 6.91E+04 | -6.69E+04 | 6.84E+04 | -6.76E+05 | 6.77E+05 |

Table Q–1579. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------|-------------------------------------------|----------------------------------------|-----------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | -5.01 | -1.09E+04 | 1.09E+04 | -1.08E+04 | 1.08E+04 | -6.45E+05 | 6.46E+05 |
| 1/20 | -15.0 | -3.26E+04 | 3.26E+04 | -3.23E+04 | 3.23E+04 | -6.45E+05 | 6.46E+05 |
| 1/15 | -20.1 | -4.35E+04 | 4.35E+04 | -4.30E+04 | 4.30E+04 | -6.45E+05 | 6.46E+05 |
| 1/10 | -30.1 | -6.52E+04 | 6.52E+04 | -6.45E+04 | 6.46E+04 | -6.45E+05 | 6.46E+05 |

Table Q-1580. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.42E+03 | -1.60E+04 | 6.71E+03 | -1.59E+04 | 6.68E+03 | -6.91E+05 | 6.66E+05 |
| 1/20 | -9.95E+03 | -4.64E+04 | 2.30E+04 | -4.62E+04 | 2.28E+04 | -7.25E+05 | 6.56E+05 |
| 1/15 | -1.48E+04 | -6.47E+04 | 2.92E+04 | -6.44E+04 | 2.90E+04 | -7.44E+05 | 6.57E+05 |
| 1/10 | -2.86E+04 | -1.08E+05 | 3.87E+04 | -1.08E+05 | 3.84E+04 | -7.89E+05 | 6.70E+05 |

Table Q-1581. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.42E+03 | -1.60E+04 | 6.73E+03 | -1.59E+04 | 6.69E+03 | -6.90E+05 | 6.67E+05 |
| 1/20 | -9.95E+03 | -4.63E+04 | 2.31E+04 | -4.61E+04 | 2.30E+04 | -7.23E+05 | 6.59E+05 |
| 1/15 | -1.48E+04 | -6.45E+04 | 2.94E+04 | -6.43E+04 | 2.93E+04 | -7.42E+05 | 6.61E+05 |
| 1/10 | -2.86E+04 | -1.07E+05 | 3.92E+04 | -1.07E+05 | 3.89E+04 | -7.85E+05 | 6.75E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1582. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.99E+03 | -1.57E+04 | 6.10E+03 | -1.57E+04 | 5.88E+03 | -6.41E+05 | 6.52E+05 |
| 1/20 | -1.18E+04 | -4.26E+04 | 2.12E+04 | -4.20E+04 | 2.06E+04 | -6.04E+05 | 6.47E+05 |
| 1/15 | -1.66E+04 | -5.90E+04 | 2.92E+04 | -5.71E+04 | 2.78E+04 | -6.07E+05 | 6.66E+05 |
| 1/10 | -2.32E+04 | -1.13E+05 | 4.40E+04 | -9.12E+04 | 4.02E+04 | -6.80E+05 | 6.34E+05 |

Table Q–1583. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1584. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -790. | -1.11E+04 | 9.38E+03 | -1.09E+04 | 9.23E+03 | -6.08E+05 | 6.01E+05 |
| 1/20 | -6.53E+03 | -3.77E+04 | 2.48E+04 | -3.67E+04 | 2.24E+04 | -6.03E+05 | 5.78E+05 |
| 1/15 | -9.52E+03 | -4.89E+04 | 3.74E+04 | -4.78E+04 | 2.90E+04 | -5.75E+05 | 5.78E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

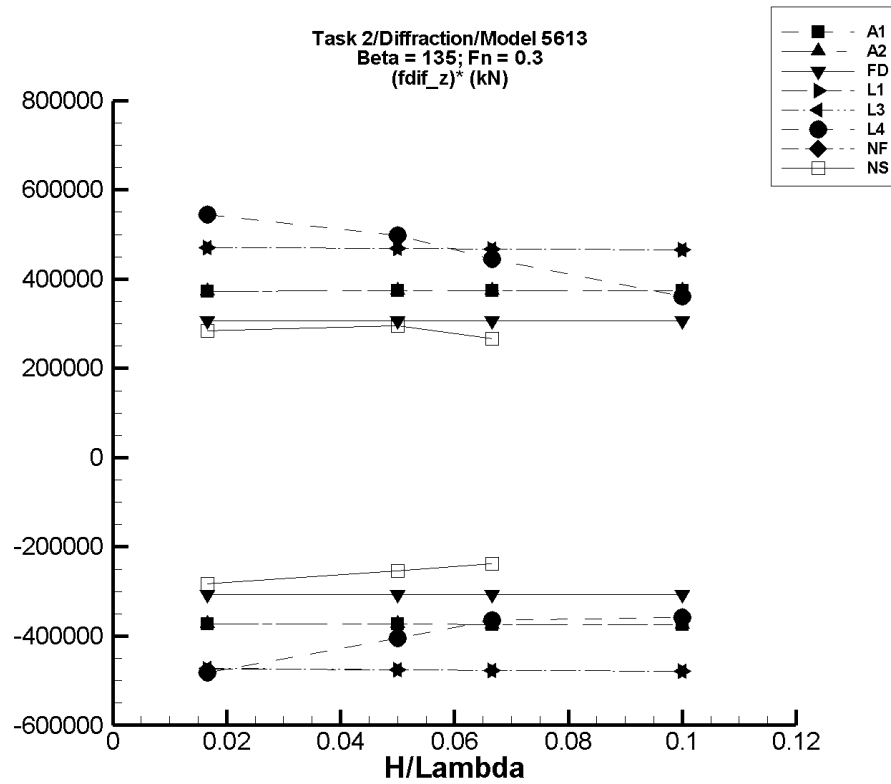


Figure Q-199. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1585. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 17.8 | -6.33E+03 | 6.38E+03 | -6.19E+03 | 6.23E+03 | -3.72E+05 | 3.73E+05 |
| 1/20 | 53.6 | -1.90E+04 | 1.92E+04 | -1.86E+04 | 1.87E+04 | -3.73E+05 | 3.74E+05 |
| 1/15 | 71.5 | -2.54E+04 | 2.56E+04 | -2.48E+04 | 2.50E+04 | -3.74E+05 | 3.74E+05 |
| 1/10 | 107. | -3.81E+04 | 3.84E+04 | -3.73E+04 | 3.75E+04 | -3.74E+05 | 3.74E+05 |

Table Q–1586. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 17.8 | -6.33E+03 | 6.38E+03 | -6.19E+03 | 6.23E+03 | -3.72E+05 | 3.73E+05 |
| 1/20 | 53.6 | -1.90E+04 | 1.92E+04 | -1.86E+04 | 1.87E+04 | -3.73E+05 | 3.74E+05 |
| 1/15 | 71.5 | -2.54E+04 | 2.56E+04 | -2.48E+04 | 2.50E+04 | -3.74E+05 | 3.74E+05 |
| 1/10 | 107. | -3.81E+04 | 3.84E+04 | -3.73E+04 | 3.75E+04 | -3.74E+05 | 3.74E+05 |

Table Q–1587. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-----------------------------------------------|------------------------------------------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | F_z^{dif} Max. (kN) | Filtered Min. (kN) | $(F_z^{\text{dif}})^*$ Max. (kN) |
| 1/60 | 0.142 | -5.24E+03 | 5.24E+03 | -5.12E+03 | 5.12E+03 | -3.07E+05 | 3.07E+05 |
| 1/20 | 0.426 | -1.57E+04 | 1.57E+04 | -1.54E+04 | 1.53E+04 | -3.07E+05 | 3.07E+05 |
| 1/15 | 0.568 | -2.10E+04 | 2.10E+04 | -2.05E+04 | 2.05E+04 | -3.07E+05 | 3.07E+05 |
| 1/10 | 0.852 | -3.15E+04 | 3.15E+04 | -3.07E+04 | 3.07E+04 | -3.07E+05 | 3.07E+05 |

Table Q–1588. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.24E+03 | -1.22E+04 | 3.68E+03 | -1.21E+04 | 3.61E+03 | -4.73E+05 | 4.71E+05 |
| 1/20 | -8.32E+03 | -3.23E+04 | 1.53E+04 | -3.21E+04 | 1.51E+04 | -4.75E+05 | 4.69E+05 |
| 1/15 | -1.19E+04 | -4.39E+04 | 1.96E+04 | -4.36E+04 | 1.93E+04 | -4.77E+05 | 4.68E+05 |
| 1/10 | -2.21E+04 | -7.04E+04 | 2.49E+04 | -6.99E+04 | 2.45E+04 | -4.79E+05 | 4.65E+05 |

Table Q–1589. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.24E+03 | -1.22E+04 | 3.67E+03 | -1.21E+04 | 3.60E+03 | -4.73E+05 | 4.71E+05 |
| 1/20 | -8.32E+03 | -3.23E+04 | 1.53E+04 | -3.21E+04 | 1.51E+04 | -4.75E+05 | 4.69E+05 |
| 1/15 | -1.19E+04 | -4.39E+04 | 1.96E+04 | -4.36E+04 | 1.93E+04 | -4.76E+05 | 4.68E+05 |
| 1/10 | -2.21E+04 | -7.04E+04 | 2.49E+04 | -6.99E+04 | 2.45E+04 | -4.79E+05 | 4.65E+05 |

Table Q–1590. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -5.15E+03 | -1.33E+04 | 4.34E+03 | -1.32E+04 | 3.92E+03 | -4.82E+05 | 5.44E+05 |
| 1/20 | -1.27E+04 | -3.31E+04 | 1.47E+04 | -3.29E+04 | 1.23E+04 | -4.05E+05 | 4.98E+05 |
| 1/15 | -1.80E+04 | -4.28E+04 | 2.07E+04 | -4.23E+04 | 1.16E+04 | -3.65E+05 | 4.44E+05 |
| 1/10 | -2.59E+04 | -8.34E+04 | 1.33E+04 | -6.17E+04 | 1.02E+04 | -3.58E+05 | 3.61E+05 |

Table Q–1591. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1592. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -551. | -5.37E+03 | 4.32E+03 | -5.27E+03 | 4.19E+03 | -2.83E+05 | 2.84E+05 |
| 1/20 | -5.92E+03 | -1.97E+04 | 9.71E+03 | -1.86E+04 | 8.87E+03 | -2.54E+05 | 2.96E+05 |
| 1/15 | -8.26E+03 | -2.48E+04 | 1.02E+04 | -2.41E+04 | 9.47E+03 | -2.37E+05 | 2.66E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

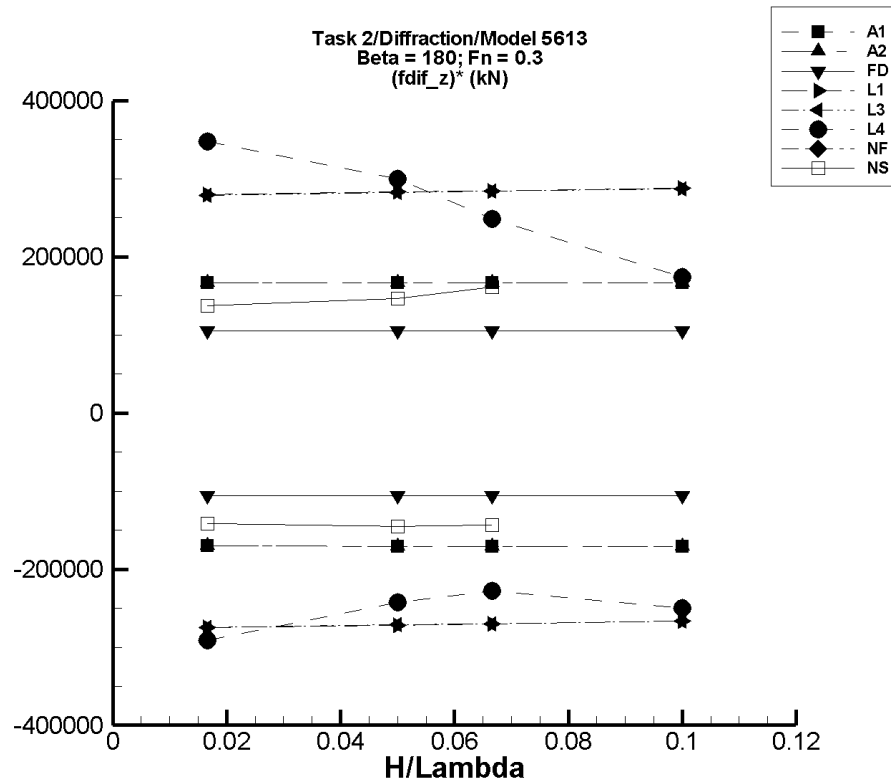


Figure Q-200. Minimum and maximum of filtered $(F_z^{\text{dif}} - \langle F_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1593. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -30.9 | -2.96E+03 | 2.83E+03 | -2.87E+03 | 2.74E+03 | -1.71E+05 | 1.66E+05 |
| 1/20 | -92.9 | -8.92E+03 | 8.51E+03 | -8.64E+03 | 8.25E+03 | -1.71E+05 | 1.67E+05 |
| 1/15 | -124. | -1.19E+04 | 1.14E+04 | -1.15E+04 | 1.10E+04 | -1.71E+05 | 1.67E+05 |
| 1/10 | -186. | -1.79E+04 | 1.70E+04 | -1.73E+04 | 1.65E+04 | -1.71E+05 | 1.67E+05 |

Table Q–1594. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -30.9 | -2.96E+03 | 2.83E+03 | -2.87E+03 | 2.74E+03 | -1.71E+05 | 1.66E+05 |
| 1/20 | -92.9 | -8.92E+03 | 8.51E+03 | -8.64E+03 | 8.25E+03 | -1.71E+05 | 1.67E+05 |
| 1/15 | -124. | -1.19E+04 | 1.14E+04 | -1.15E+04 | 1.10E+04 | -1.71E+05 | 1.67E+05 |
| 1/10 | -186. | -1.79E+04 | 1.70E+04 | -1.73E+04 | 1.65E+04 | -1.71E+05 | 1.67E+05 |

Table Q–1595. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-----------------------------------------------------------|-------------------------------------------------|---------------------|-----------------------------------------------|---------------------|---------------------------------------------------|---------------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -2.11 | -1.82E+03 | 1.82E+03 | -1.76E+03 | 1.76E+03 | -1.06E+05 | 1.06E+05 |
| 1/20 | -6.34 | -5.46E+03 | 5.46E+03 | -5.29E+03 | 5.27E+03 | -1.06E+05 | 1.06E+05 |
| 1/15 | -8.45 | -7.28E+03 | 7.27E+03 | -7.05E+03 | 7.03E+03 | -1.06E+05 | 1.06E+05 |
| 1/10 | -12.7 | -1.09E+04 | 1.09E+04 | -1.06E+04 | 1.05E+04 | -1.06E+05 | 1.06E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1596. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.10E+03 | -8.73E+03 | 614. | -8.68E+03 | 560. | -2.75E+05 | 2.79E+05 |
| 1/20 | -6.97E+03 | -2.07E+04 | 7.34E+03 | -2.06E+04 | 7.17E+03 | -2.72E+05 | 2.83E+05 |
| 1/15 | -9.47E+03 | -2.77E+04 | 9.73E+03 | -2.75E+04 | 9.50E+03 | -2.70E+05 | 2.85E+05 |
| 1/10 | -1.66E+04 | -4.36E+04 | 1.25E+04 | -4.33E+04 | 1.22E+04 | -2.67E+05 | 2.88E+05 |

Table Q–1597. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -4.10E+03 | -8.73E+03 | 605. | -8.68E+03 | 551. | -2.75E+05 | 2.79E+05 |
| 1/20 | -6.97E+03 | -2.07E+04 | 7.32E+03 | -2.05E+04 | 7.15E+03 | -2.72E+05 | 2.82E+05 |
| 1/15 | -9.47E+03 | -2.77E+04 | 9.69E+03 | -2.75E+04 | 9.46E+03 | -2.70E+05 | 2.84E+05 |
| 1/10 | -1.66E+04 | -4.36E+04 | 1.25E+04 | -4.33E+04 | 1.21E+04 | -2.67E+05 | 2.87E+05 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1598. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -5.03E+03 | -1.00E+04 | 1.34E+03 | -9.88E+03 | 764. | -2.91E+05 | 3.48E+05 |
| 1/20 | -1.21E+04 | -2.55E+04 | 4.94E+03 | -2.42E+04 | 2.88E+03 | -2.42E+05 | 2.99E+05 |
| 1/15 | -1.68E+04 | -3.35E+04 | 1.77E+03 | -3.20E+04 | -195. | -2.28E+05 | 2.48E+05 |
| 1/10 | -2.45E+04 | -6.43E+04 | -2.97E+03 | -4.95E+04 | -7.07E+03 | -2.50E+05 | 1.74E+05 |

Table Q–1599. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1600. Minimum and Maximum of Variables F_z^{dif} and $(F_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|----------------------------------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------------------------|--------------|
| (H/λ) | $\langle F_z^{\text{dif}} \rangle$ Mean (kN) | Unfiltered F_z^{dif} | | Filtered F_z^{dif} | | Filtered $(F_z^{\text{dif}})^*$ | |
| | | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) | Min. (kN) | Max. (kN) |
| 1/60 | -497. | -2.95E+03 | 1.87E+03 | -2.85E+03 | 1.79E+03 | -1.41E+05 | 1.37E+05 |
| 1/20 | -4.93E+03 | -1.27E+04 | 3.00E+03 | -1.22E+04 | 2.41E+03 | -1.46E+05 | 1.47E+05 |
| 1/15 | -6.37E+03 | -1.66E+04 | 4.93E+03 | -1.59E+04 | 4.36E+03 | -1.43E+05 | 1.61E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

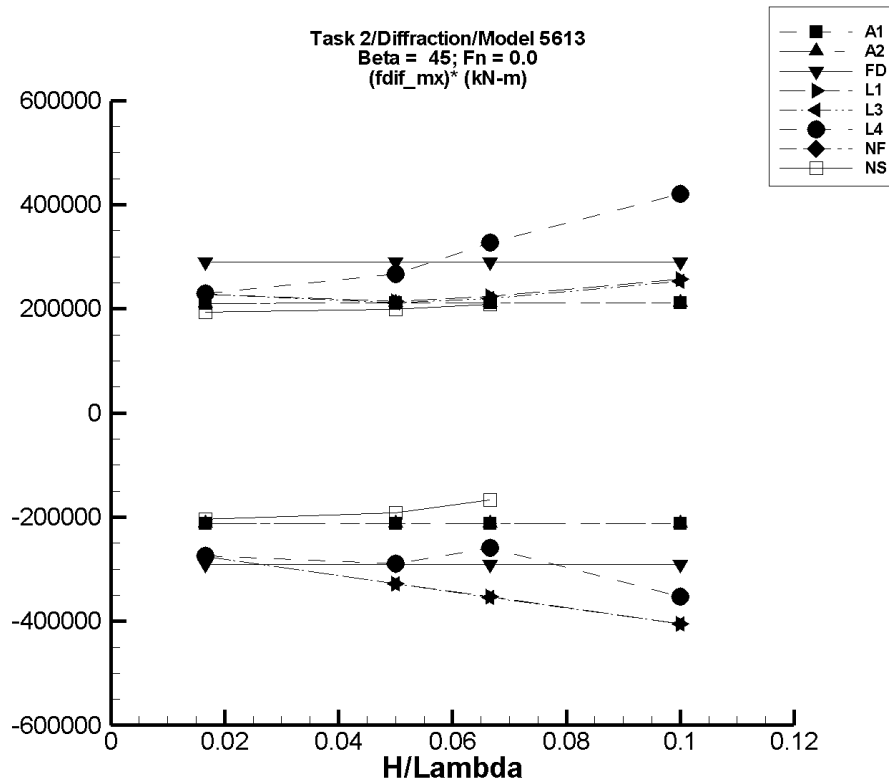


Figure Q-201. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1601. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 0.500 | -3.59E+03 | 3.58E+03 | -3.53E+03 | 3.51E+03 | -2.12E+05 | 2.10E+05 |
| 1/20 | 1.50 | -1.08E+04 | 1.08E+04 | -1.06E+04 | 1.06E+04 | -2.13E+05 | 2.11E+05 |
| 1/15 | 2.01 | -1.44E+04 | 1.44E+04 | -1.42E+04 | 1.41E+04 | -2.13E+05 | 2.11E+05 |
| 1/10 | 3.01 | -2.16E+04 | 2.16E+04 | -2.13E+04 | 2.11E+04 | -2.13E+05 | 2.11E+05 |

Table Q-1602. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 0.500 | -3.59E+03 | 3.58E+03 | -3.53E+03 | 3.51E+03 | -2.12E+05 | 2.10E+05 |
| 1/20 | 1.50 | -1.08E+04 | 1.08E+04 | -1.06E+04 | 1.06E+04 | -2.13E+05 | 2.11E+05 |
| 1/15 | 2.01 | -1.44E+04 | 1.44E+04 | -1.42E+04 | 1.41E+04 | -2.13E+05 | 2.11E+05 |
| 1/10 | 3.01 | -2.16E+04 | 2.16E+04 | -2.13E+04 | 2.11E+04 | -2.13E+05 | 2.11E+05 |

Table Q-1603. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 1.88 | -4.89E+03 | 4.89E+03 | -4.84E+03 | 4.84E+03 | -2.90E+05 | 2.90E+05 |
| 1/20 | 5.66 | -1.47E+04 | 1.47E+04 | -1.45E+04 | 1.45E+04 | -2.90E+05 | 2.90E+05 |
| 1/15 | 7.54 | -1.95E+04 | 1.96E+04 | -1.94E+04 | 1.94E+04 | -2.90E+05 | 2.90E+05 |
| 1/10 | 11.3 | -2.93E+04 | 2.93E+04 | -2.90E+04 | 2.90E+04 | -2.90E+05 | 2.90E+05 |

Table Q-1604. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 539. | -4.06E+03 | 4.36E+03 | -4.06E+03 | 4.35E+03 | -2.76E+05 | 2.28E+05 |
| 1/20 | 4.84E+03 | -1.15E+04 | 1.56E+04 | -1.15E+04 | 1.55E+04 | -3.28E+05 | 2.14E+05 |
| 1/15 | 8.61E+03 | -1.49E+04 | 2.36E+04 | -1.50E+04 | 2.35E+04 | -3.53E+05 | 2.24E+05 |
| 1/10 | 1.94E+04 | -2.11E+04 | 4.53E+04 | -2.12E+04 | 4.51E+04 | -4.05E+05 | 2.57E+05 |

Table Q-1605. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 539. | -4.06E+03 | 4.34E+03 | -4.07E+03 | 4.33E+03 | -2.76E+05 | 2.28E+05 |
| 1/20 | 4.84E+03 | -1.15E+04 | 1.54E+04 | -1.16E+04 | 1.54E+04 | -3.28E+05 | 2.11E+05 |
| 1/15 | 8.61E+03 | -1.49E+04 | 2.34E+04 | -1.50E+04 | 2.33E+04 | -3.54E+05 | 2.20E+05 |
| 1/10 | 1.94E+04 | -2.12E+04 | 4.49E+04 | -2.12E+04 | 4.47E+04 | -4.06E+05 | 2.53E+05 |

Table Q-1606. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 359. | -4.63E+03 | 4.50E+03 | -4.21E+03 | 4.19E+03 | -2.74E+05 | 2.30E+05 |
| 1/20 | 2.10E+03 | -1.37E+04 | 1.70E+04 | -1.24E+04 | 1.54E+04 | -2.89E+05 | 2.67E+05 |
| 1/15 | -239. | -2.15E+04 | 2.49E+04 | -1.75E+04 | 2.16E+04 | -2.59E+05 | 3.28E+05 |
| 1/10 | -9.48E+03 | -6.33E+04 | 3.83E+04 | -4.48E+04 | 3.27E+04 | -3.53E+05 | 4.21E+05 |

Table Q-1607. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1608. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 50.4 | -3.55E+03 | 3.53E+03 | -3.36E+03 | 3.28E+03 | -2.04E+05 | 1.94E+05 |
| 1/20 | -355. | -1.26E+04 | 1.02E+04 | -9.92E+03 | 9.59E+03 | -1.91E+05 | 1.99E+05 |
| 1/15 | -1.89E+03 | -3.76E+04 | 1.28E+04 | -1.30E+04 | 1.21E+04 | -1.67E+05 | 2.09E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

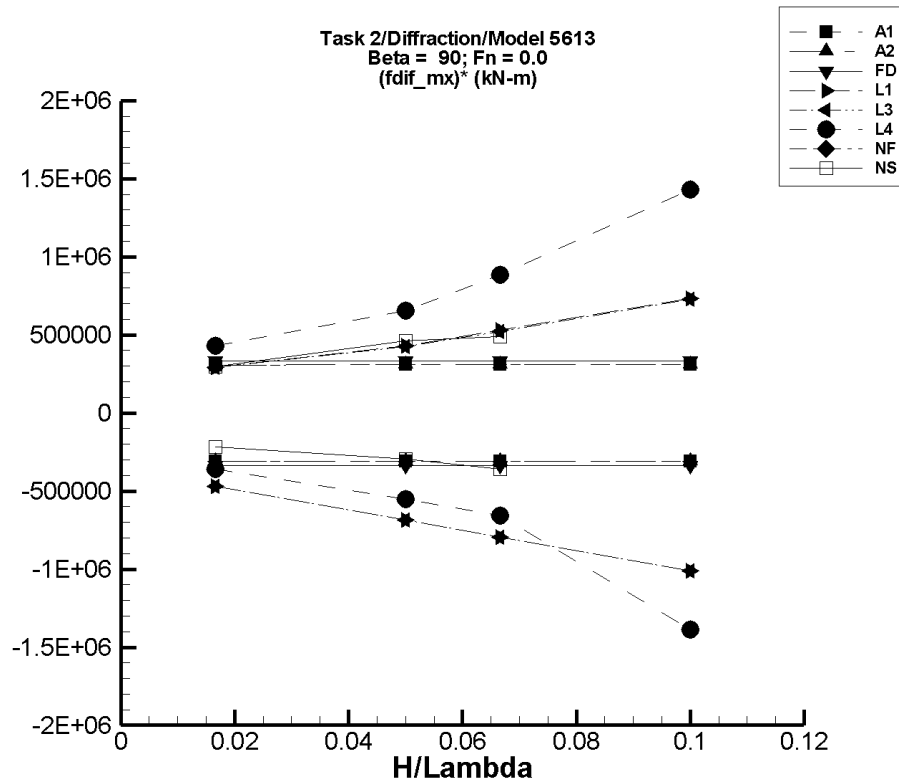


Figure Q-202. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1609. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 4.30 | -5.18E+03 | 5.18E+03 | -5.12E+03 | 5.13E+03 | -3.07E+05 | 3.07E+05 |
| 1/20 | 12.9 | -1.56E+04 | 1.56E+04 | -1.54E+04 | 1.54E+04 | -3.08E+05 | 3.08E+05 |
| 1/15 | 17.3 | -2.08E+04 | 2.08E+04 | -2.06E+04 | 2.06E+04 | -3.09E+05 | 3.09E+05 |
| 1/10 | 25.9 | -3.12E+04 | 3.12E+04 | -3.08E+04 | 3.09E+04 | -3.09E+05 | 3.09E+05 |

Table Q-1610. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 4.30 | -5.18E+03 | 5.18E+03 | -5.12E+03 | 5.13E+03 | -3.07E+05 | 3.07E+05 |
| 1/20 | 12.9 | -1.56E+04 | 1.56E+04 | -1.54E+04 | 1.54E+04 | -3.08E+05 | 3.08E+05 |
| 1/15 | 17.3 | -2.08E+04 | 2.08E+04 | -2.06E+04 | 2.06E+04 | -3.09E+05 | 3.09E+05 |
| 1/10 | 25.9 | -3.12E+04 | 3.12E+04 | -3.08E+04 | 3.09E+04 | -3.09E+05 | 3.09E+05 |

Table Q-1611. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 1.18 | -5.64E+03 | 5.64E+03 | -5.58E+03 | 5.58E+03 | -3.35E+05 | 3.35E+05 |
| 1/20 | 3.55 | -1.69E+04 | 1.69E+04 | -1.67E+04 | 1.67E+04 | -3.35E+05 | 3.35E+05 |
| 1/15 | 4.74 | -2.25E+04 | 2.25E+04 | -2.23E+04 | 2.23E+04 | -3.35E+05 | 3.35E+05 |
| 1/10 | 7.10 | -3.38E+04 | 3.38E+04 | -3.35E+04 | 3.35E+04 | -3.35E+05 | 3.35E+05 |

Table Q-1612. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 1.39E+03 | -6.47E+03 | 6.31E+03 | -6.42E+03 | 6.29E+03 | -4.69E+05 | 2.94E+05 |
| 1/20 | 1.25E+04 | -2.21E+04 | 3.43E+04 | -2.18E+04 | 3.40E+04 | -6.85E+05 | 4.31E+05 |
| 1/15 | 2.22E+04 | -3.12E+04 | 5.79E+04 | -3.07E+04 | 5.74E+04 | -7.94E+05 | 5.29E+05 |
| 1/10 | 5.00E+04 | -5.22E+04 | 1.24E+05 | -5.12E+04 | 1.23E+05 | -1.01E+06 | 7.34E+05 |

Table Q-1613. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 1.39E+03 | -6.48E+03 | 6.24E+03 | -6.43E+03 | 6.22E+03 | -4.69E+05 | 2.90E+05 |
| 1/20 | 1.25E+04 | -2.21E+04 | 3.40E+04 | -2.18E+04 | 3.37E+04 | -6.86E+05 | 4.25E+05 |
| 1/15 | 2.22E+04 | -3.13E+04 | 5.74E+04 | -3.08E+04 | 5.70E+04 | -7.94E+05 | 5.22E+05 |
| 1/10 | 5.00E+04 | -5.22E+04 | 1.24E+05 | -5.12E+04 | 1.23E+05 | -1.01E+06 | 7.28E+05 |

Table Q–1614. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 713. | -6.19E+03 | 8.89E+03 | -5.31E+03 | 7.87E+03 | -3.62E+05 | 4.29E+05 |
| 1/20 | 4.48E+03 | -2.58E+04 | 3.91E+04 | -2.31E+04 | 3.73E+04 | -5.52E+05 | 6.56E+05 |
| 1/15 | -531. | -4.95E+04 | 6.61E+04 | -4.45E+04 | 5.85E+04 | -6.59E+05 | 8.85E+05 |
| 1/10 | -2.36E+04 | -1.81E+05 | 1.66E+05 | -1.62E+05 | 1.19E+05 | -1.39E+06 | 1.43E+06 |

Table Q–1615. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1616. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 38.5 | -3.69E+03 | 5.31E+03 | -3.57E+03 | 5.02E+03 | -2.17E+05 | 2.99E+05 |
| 1/20 | -613. | -2.24E+04 | 2.56E+04 | -1.53E+04 | 2.25E+04 | -2.94E+05 | 4.63E+05 |
| 1/15 | -2.39E+03 | -3.10E+04 | 3.55E+04 | -2.64E+04 | 3.02E+04 | -3.60E+05 | 4.89E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

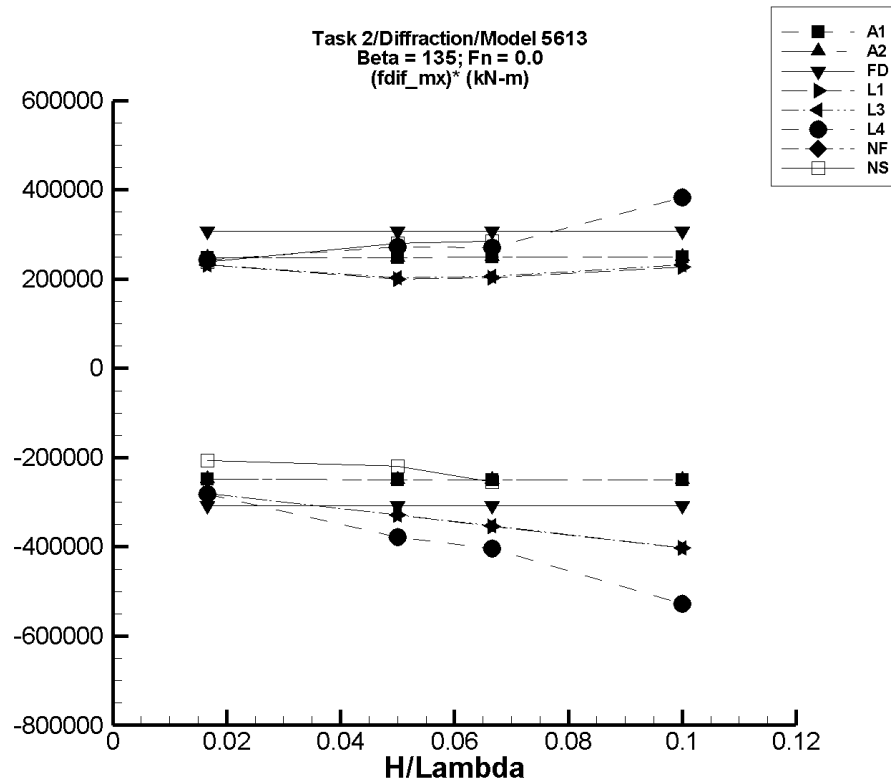


Figure Q-203. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1617. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 6.02 | -4.18E+03 | 4.18E+03 | -4.14E+03 | 4.14E+03 | -2.49E+05 | 2.48E+05 |
| 1/20 | 18.1 | -1.26E+04 | 1.26E+04 | -1.25E+04 | 1.24E+04 | -2.50E+05 | 2.49E+05 |
| 1/15 | 24.2 | -1.68E+04 | 1.68E+04 | -1.66E+04 | 1.66E+04 | -2.50E+05 | 2.49E+05 |
| 1/10 | 36.2 | -2.52E+04 | 2.52E+04 | -2.50E+04 | 2.49E+04 | -2.50E+05 | 2.49E+05 |

Table Q-1618. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 6.02 | -4.18E+03 | 4.18E+03 | -4.14E+03 | 4.14E+03 | -2.49E+05 | 2.48E+05 |
| 1/20 | 18.1 | -1.26E+04 | 1.26E+04 | -1.25E+04 | 1.24E+04 | -2.50E+05 | 2.49E+05 |
| 1/15 | 24.2 | -1.68E+04 | 1.68E+04 | -1.66E+04 | 1.66E+04 | -2.50E+05 | 2.49E+05 |
| 1/10 | 36.2 | -2.52E+04 | 2.52E+04 | -2.50E+04 | 2.49E+04 | -2.50E+05 | 2.49E+05 |

Table Q-1619. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 0.278 | -5.19E+03 | 5.19E+03 | -5.14E+03 | 5.14E+03 | -3.08E+05 | 3.08E+05 |
| 1/20 | 0.837 | -1.56E+04 | 1.56E+04 | -1.54E+04 | 1.54E+04 | -3.08E+05 | 3.08E+05 |
| 1/15 | 1.11 | -2.08E+04 | 2.08E+04 | -2.06E+04 | 2.05E+04 | -3.08E+05 | 3.08E+05 |
| 1/10 | 1.67 | -3.11E+04 | 3.11E+04 | -3.08E+04 | 3.08E+04 | -3.08E+05 | 3.08E+05 |

Table Q-1620. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 833. | -3.86E+03 | 4.71E+03 | -3.84E+03 | 4.70E+03 | -2.80E+05 | 2.32E+05 |
| 1/20 | 7.48E+03 | -9.07E+03 | 1.75E+04 | -8.98E+03 | 1.75E+04 | -3.29E+05 | 2.00E+05 |
| 1/15 | 1.33E+04 | -1.04E+04 | 2.69E+04 | -1.03E+04 | 2.68E+04 | -3.54E+05 | 2.03E+05 |
| 1/10 | 2.99E+04 | -1.07E+04 | 5.29E+04 | -1.04E+04 | 5.27E+04 | -4.03E+05 | 2.28E+05 |

Table Q-1621. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 833. | -3.85E+03 | 4.72E+03 | -3.84E+03 | 4.71E+03 | -2.80E+05 | 2.32E+05 |
| 1/20 | 7.48E+03 | -9.05E+03 | 1.77E+04 | -8.96E+03 | 1.76E+04 | -3.29E+05 | 2.03E+05 |
| 1/15 | 1.33E+04 | -1.04E+04 | 2.71E+04 | -1.03E+04 | 2.70E+04 | -3.53E+05 | 2.06E+05 |
| 1/10 | 2.99E+04 | -1.06E+04 | 5.33E+04 | -1.03E+04 | 5.31E+04 | -4.02E+05 | 2.32E+05 |

Table Q-1622. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 685. | -4.32E+03 | 5.35E+03 | -4.01E+03 | 4.74E+03 | -2.82E+05 | 2.43E+05 |
| 1/20 | 3.60E+03 | -1.73E+04 | 1.98E+04 | -1.53E+04 | 1.72E+04 | -3.79E+05 | 2.72E+05 |
| 1/15 | 1.81E+03 | -2.76E+04 | 2.14E+04 | -2.51E+04 | 1.98E+04 | -4.04E+05 | 2.70E+05 |
| 1/10 | -1.08E+04 | -8.32E+04 | 1.14E+05 | -6.36E+04 | 2.75E+04 | -5.28E+05 | 3.83E+05 |

Table Q-1623. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1624. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 36.2 | -3.48E+03 | 4.13E+03 | -3.41E+03 | 4.00E+03 | -2.07E+05 | 2.38E+05 |
| 1/20 | -438. | -1.76E+04 | 1.54E+04 | -1.14E+04 | 1.36E+04 | -2.19E+05 | 2.81E+05 |
| 1/15 | -1.98E+03 | -3.16E+04 | 1.76E+04 | -1.89E+04 | 1.70E+04 | -2.54E+05 | 2.85E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

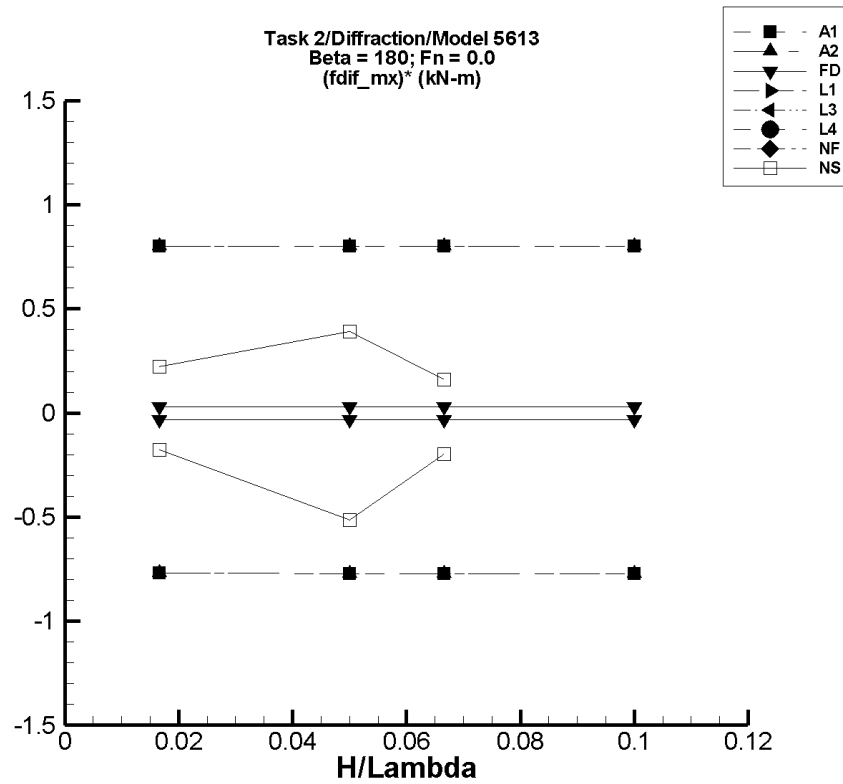


Figure Q-204. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1625. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 5.75E-06 | -1.30E-02 | 1.34E-02 | -1.28E-02 | 1.33E-02 | -0.769 | 0.799 |
| 1/20 | 1.73E-05 | -3.91E-02 | 4.04E-02 | -3.85E-02 | 4.01E-02 | -0.771 | 0.801 |
| 1/15 | 2.31E-05 | -5.22E-02 | 5.39E-02 | -5.14E-02 | 5.35E-02 | -0.772 | 0.802 |
| 1/10 | 3.46E-05 | -7.83E-02 | 8.09E-02 | -7.71E-02 | 8.03E-02 | -0.772 | 0.802 |

Table Q-1626. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 5.75E-06 | -1.30E-02 | 1.34E-02 | -1.28E-02 | 1.33E-02 | -0.769 | 0.799 |
| 1/20 | 1.73E-05 | -3.91E-02 | 4.04E-02 | -3.85E-02 | 4.01E-02 | -0.771 | 0.801 |
| 1/15 | 2.31E-05 | -5.22E-02 | 5.39E-02 | -5.14E-02 | 5.35E-02 | -0.772 | 0.802 |
| 1/10 | 3.46E-05 | -7.83E-02 | 8.09E-02 | -7.71E-02 | 8.03E-02 | -0.772 | 0.802 |

Table Q-1627. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -6.86E-08 | -5.25E-04 | 5.25E-04 | -5.20E-04 | 5.20E-04 | -3.12E-02 | 3.12E-02 |
| 1/20 | -2.06E-07 | -1.58E-03 | 1.58E-03 | -1.56E-03 | 1.56E-03 | -3.12E-02 | 3.12E-02 |
| 1/15 | -2.75E-07 | -2.10E-03 | 2.10E-03 | -2.08E-03 | 2.08E-03 | -3.12E-02 | 3.12E-02 |
| 1/10 | -4.12E-07 | -3.15E-03 | 3.15E-03 | -3.12E-03 | 3.12E-03 | -3.12E-02 | 3.12E-02 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1628. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1629. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1630. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1631. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1632. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.18E-04 | -1.17E-02 | 9.52E-03 | -2.81E-03 | 3.81E-03 | -0.176 | 0.222 |
| 1/20 | 7.80E-05 | -3.92E-02 | 6.94E-02 | -2.57E-02 | 1.96E-02 | -0.515 | 0.390 |
| 1/15 | 2.26E-04 | -0.272 | 0.292 | -1.29E-02 | 1.08E-02 | -0.197 | 0.159 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

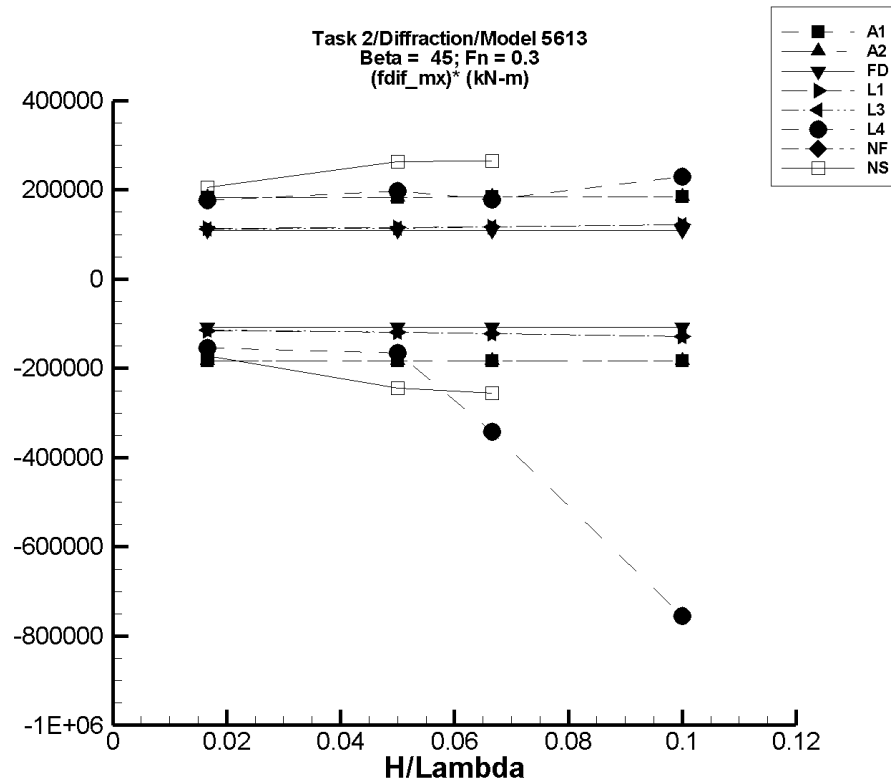


Figure Q-205. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1633. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -1.93 | -3.07E+03 | 3.06E+03 | -3.06E+03 | 3.05E+03 | -1.83E+05 | 1.83E+05 |
| 1/20 | -5.81 | -9.22E+03 | 9.21E+03 | -9.19E+03 | 9.18E+03 | -1.84E+05 | 1.84E+05 |
| 1/15 | -7.76 | -1.23E+04 | 1.23E+04 | -1.23E+04 | 1.23E+04 | -1.84E+05 | 1.84E+05 |
| 1/10 | -11.6 | -1.85E+04 | 1.84E+04 | -1.84E+04 | 1.84E+04 | -1.84E+05 | 1.84E+05 |

Table Q-1634. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -1.93 | -3.07E+03 | 3.06E+03 | -3.06E+03 | 3.05E+03 | -1.83E+05 | 1.83E+05 |
| 1/20 | -5.81 | -9.22E+03 | 9.21E+03 | -9.19E+03 | 9.18E+03 | -1.84E+05 | 1.84E+05 |
| 1/15 | -7.76 | -1.23E+04 | 1.23E+04 | -1.23E+04 | 1.23E+04 | -1.84E+05 | 1.84E+05 |
| 1/10 | -11.6 | -1.85E+04 | 1.84E+04 | -1.84E+04 | 1.84E+04 | -1.84E+05 | 1.84E+05 |

Table Q-1635. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.72E-02 | -1.81E+03 | 1.81E+03 | -1.81E+03 | 1.81E+03 | -1.08E+05 | 1.08E+05 |
| 1/20 | -5.21E-02 | -5.43E+03 | 5.43E+03 | -5.42E+03 | 5.42E+03 | -1.08E+05 | 1.08E+05 |
| 1/15 | -6.89E-02 | -7.25E+03 | 7.25E+03 | -7.23E+03 | 7.23E+03 | -1.08E+05 | 1.08E+05 |
| 1/10 | -0.104 | -1.09E+04 | 1.09E+04 | -1.08E+04 | 1.08E+04 | -1.08E+05 | 1.08E+05 |

Table Q-1636. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 723. | -1.20E+03 | 2.61E+03 | -1.19E+03 | 2.61E+03 | -1.15E+05 | 1.13E+05 |
| 1/20 | 6.51E+03 | 529. | 1.23E+04 | 535. | 1.22E+04 | -1.19E+05 | 1.15E+05 |
| 1/15 | 1.16E+04 | 3.40E+03 | 1.93E+04 | 3.41E+03 | 1.93E+04 | -1.22E+05 | 1.17E+05 |
| 1/10 | 2.60E+04 | 1.31E+04 | 3.82E+04 | 1.31E+04 | 3.82E+04 | -1.29E+05 | 1.22E+05 |

Table Q-1637. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 723. | -1.19E+03 | 2.61E+03 | -1.18E+03 | 2.61E+03 | -1.14E+05 | 1.13E+05 |
| 1/20 | 6.51E+03 | 566. | 1.22E+04 | 572. | 1.22E+04 | -1.19E+05 | 1.15E+05 |
| 1/15 | 1.16E+04 | 3.45E+03 | 1.93E+04 | 3.46E+03 | 1.93E+04 | -1.22E+05 | 1.17E+05 |
| 1/10 | 2.60E+04 | 1.32E+04 | 3.82E+04 | 1.32E+04 | 3.82E+04 | -1.28E+05 | 1.22E+05 |

Table Q-1638. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 1.01E+03 | -1.61E+03 | 5.98E+03 | -1.56E+03 | 3.95E+03 | -1.54E+05 | 1.77E+05 |
| 1/20 | 6.36E+03 | -2.77E+03 | 2.31E+04 | -1.91E+03 | 1.62E+04 | -1.65E+05 | 1.97E+05 |
| 1/15 | 6.20E+03 | -2.30E+04 | 2.77E+04 | -1.67E+04 | 1.81E+04 | -3.43E+05 | 1.79E+05 |
| 1/10 | -4.65E+03 | -2.30E+05 | 6.10E+04 | -8.01E+04 | 1.83E+04 | -7.54E+05 | 2.30E+05 |

Table Q–1639. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1640. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.70 | -2.92E+03 | 3.45E+03 | -2.87E+03 | 3.43E+03 | -1.72E+05 | 2.06E+05 |
| 1/20 | -1.39E+03 | -1.57E+04 | 1.22E+04 | -1.36E+04 | 1.18E+04 | -2.45E+05 | 2.64E+05 |
| 1/15 | -2.69E+03 | -2.25E+04 | 1.64E+04 | -1.97E+04 | 1.50E+04 | -2.55E+05 | 2.65E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

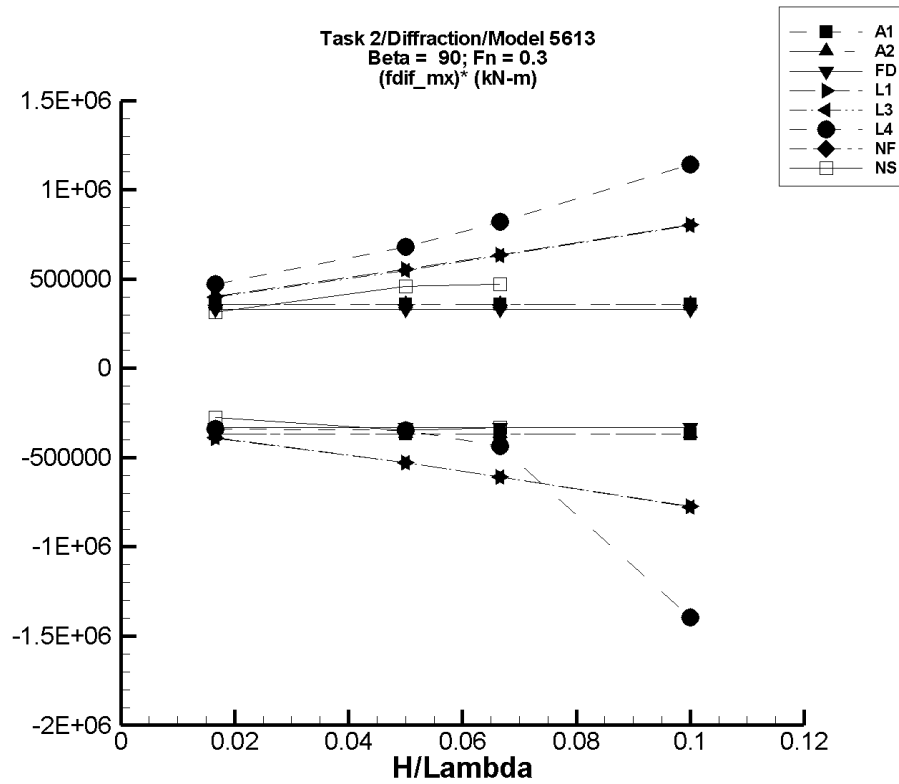


Figure Q-206. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1641. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.21 | -6.28E+03 | 6.25E+03 | -6.14E+03 | 5.95E+03 | -3.68E+05 | 3.57E+05 |
| 1/20 | -6.64 | -1.89E+04 | 1.88E+04 | -1.85E+04 | 1.79E+04 | -3.69E+05 | 3.58E+05 |
| 1/15 | -8.86 | -2.52E+04 | 2.51E+04 | -2.46E+04 | 2.39E+04 | -3.69E+05 | 3.59E+05 |
| 1/10 | -13.3 | -3.79E+04 | 3.76E+04 | -3.70E+04 | 3.58E+04 | -3.69E+05 | 3.59E+05 |

Table Q-1642. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.21 | -6.28E+03 | 6.25E+03 | -6.14E+03 | 5.95E+03 | -3.68E+05 | 3.57E+05 |
| 1/20 | -6.64 | -1.89E+04 | 1.88E+04 | -1.85E+04 | 1.79E+04 | -3.69E+05 | 3.58E+05 |
| 1/15 | -8.86 | -2.52E+04 | 2.51E+04 | -2.46E+04 | 2.39E+04 | -3.69E+05 | 3.59E+05 |
| 1/10 | -13.3 | -3.79E+04 | 3.76E+04 | -3.70E+04 | 3.58E+04 | -3.69E+05 | 3.59E+05 |

Table Q-1643. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.25 | -5.55E+03 | 5.55E+03 | -5.50E+03 | 5.50E+03 | -3.30E+05 | 3.30E+05 |
| 1/20 | 3.74 | -1.67E+04 | 1.67E+04 | -1.65E+04 | 1.65E+04 | -3.30E+05 | 3.30E+05 |
| 1/15 | 4.99 | -2.22E+04 | 2.22E+04 | -2.20E+04 | 2.20E+04 | -3.30E+05 | 3.30E+05 |
| 1/10 | 7.49 | -3.33E+04 | 3.33E+04 | -3.30E+04 | 3.30E+04 | -3.30E+05 | 3.30E+05 |

Table Q-1644. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 932. | -5.53E+03 | 7.70E+03 | -5.57E+03 | 7.66E+03 | -3.90E+05 | 4.04E+05 |
| 1/20 | 8.38E+03 | -1.82E+04 | 3.63E+04 | -1.80E+04 | 3.61E+04 | -5.27E+05 | 5.54E+05 |
| 1/15 | 1.49E+04 | -2.60E+04 | 5.77E+04 | -2.56E+04 | 5.73E+04 | -6.08E+05 | 6.37E+05 |
| 1/10 | 3.35E+04 | -4.48E+04 | 1.15E+05 | -4.40E+04 | 1.14E+05 | -7.75E+05 | 8.06E+05 |

Table Q-1645. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 932. | -5.53E+03 | 7.63E+03 | -5.56E+03 | 7.59E+03 | -3.90E+05 | 3.99E+05 |
| 1/20 | 8.38E+03 | -1.83E+04 | 3.61E+04 | -1.80E+04 | 3.58E+04 | -5.29E+05 | 5.49E+05 |
| 1/15 | 1.49E+04 | -2.61E+04 | 5.74E+04 | -2.58E+04 | 5.70E+04 | -6.10E+05 | 6.32E+05 |
| 1/10 | 3.35E+04 | -4.50E+04 | 1.14E+05 | -4.42E+04 | 1.14E+05 | -7.77E+05 | 8.00E+05 |

Table Q–1646. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 1.06E+03 | -5.33E+03 | 9.77E+03 | -4.61E+03 | 8.89E+03 | -3.40E+05 | 4.70E+05 |
| 1/20 | 6.13E+03 | -1.17E+04 | 4.42E+04 | -1.13E+04 | 4.01E+04 | -3.49E+05 | 6.79E+05 |
| 1/15 | 4.67E+03 | -2.53E+04 | 6.67E+04 | -2.45E+04 | 5.94E+04 | -4.37E+05 | 8.21E+05 |
| 1/10 | -1.63E+04 | -3.30E+05 | 1.12E+05 | -1.56E+05 | 9.79E+04 | -1.40E+06 | 1.14E+06 |

Table Q–1647. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1648. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered $(M_x^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -177. | -5.10E+03 | 5.33E+03 | -4.77E+03 | 5.08E+03 | -2.76E+05 | 3.15E+05 |
| 1/20 | -1.67E+03 | -2.32E+04 | 2.48E+04 | -1.91E+04 | 2.12E+04 | -3.49E+05 | 4.58E+05 |
| 1/15 | -1.44E+03 | -2.99E+04 | 3.52E+04 | -2.35E+04 | 3.01E+04 | -3.31E+05 | 4.73E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

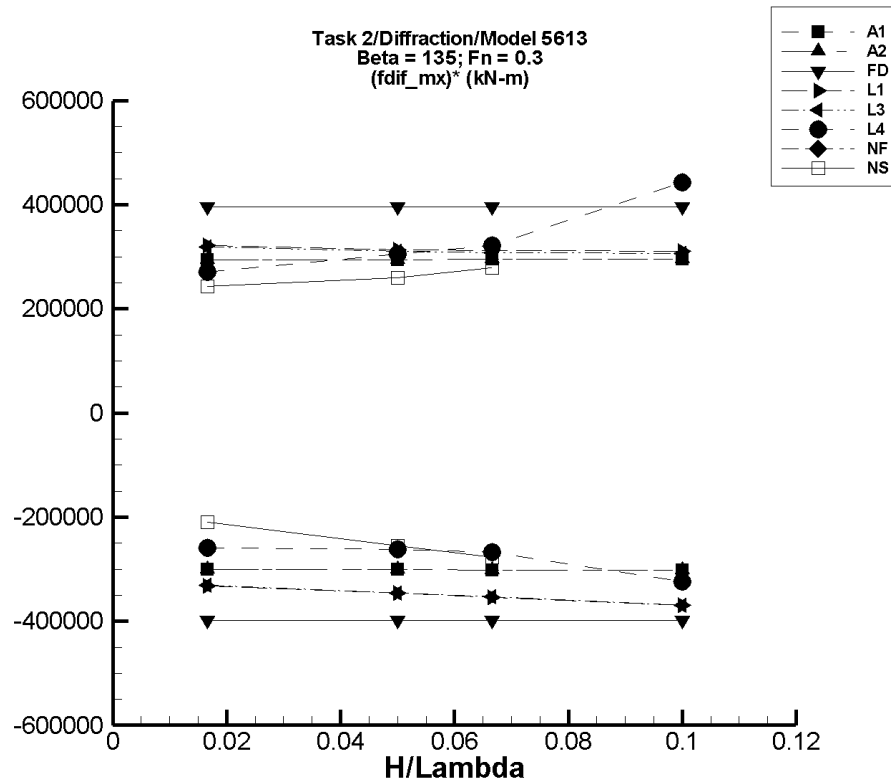


Figure Q-207. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1649. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -2.04 | -5.14E+03 | 5.06E+03 | -5.00E+03 | 4.90E+03 | -3.00E+05 | 2.94E+05 |
| 1/20 | -6.15 | -1.55E+04 | 1.52E+04 | -1.51E+04 | 1.47E+04 | -3.01E+05 | 2.95E+05 |
| 1/15 | -8.21 | -2.07E+04 | 2.03E+04 | -2.01E+04 | 1.97E+04 | -3.01E+05 | 2.95E+05 |
| 1/10 | -12.3 | -3.10E+04 | 3.05E+04 | -3.01E+04 | 2.95E+04 | -3.01E+05 | 2.95E+05 |

Table Q-1650. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -2.04 | -5.14E+03 | 5.06E+03 | -5.00E+03 | 4.90E+03 | -3.00E+05 | 2.94E+05 |
| 1/20 | -6.15 | -1.55E+04 | 1.52E+04 | -1.51E+04 | 1.47E+04 | -3.01E+05 | 2.95E+05 |
| 1/15 | -8.21 | -2.07E+04 | 2.03E+04 | -2.01E+04 | 1.97E+04 | -3.01E+05 | 2.95E+05 |
| 1/10 | -12.3 | -3.10E+04 | 3.05E+04 | -3.01E+04 | 2.95E+04 | -3.01E+05 | 2.95E+05 |

Table Q-1651. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -0.225 | -6.76E+03 | 6.76E+03 | -6.63E+03 | 6.60E+03 | -3.98E+05 | 3.96E+05 |
| 1/20 | -0.672 | -2.03E+04 | 2.03E+04 | -1.99E+04 | 1.98E+04 | -3.98E+05 | 3.96E+05 |
| 1/15 | -0.899 | -2.70E+04 | 2.70E+04 | -2.65E+04 | 2.64E+04 | -3.98E+05 | 3.96E+05 |
| 1/10 | -1.34 | -4.06E+04 | 4.06E+04 | -3.98E+04 | 3.96E+04 | -3.98E+05 | 3.96E+05 |

Table Q-1652. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 617. | -4.98E+03 | 6.02E+03 | -4.93E+03 | 5.97E+03 | -3.33E+05 | 3.21E+05 |
| 1/20 | 5.55E+03 | -1.19E+04 | 2.14E+04 | -1.18E+04 | 2.12E+04 | -3.46E+05 | 3.14E+05 |
| 1/15 | 9.86E+03 | -1.40E+04 | 3.08E+04 | -1.37E+04 | 3.06E+04 | -3.54E+05 | 3.12E+05 |
| 1/10 | 2.22E+04 | -1.52E+04 | 5.36E+04 | -1.48E+04 | 5.33E+04 | -3.69E+05 | 3.11E+05 |

Table Q-1653. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 617. | -4.95E+03 | 5.98E+03 | -4.91E+03 | 5.93E+03 | -3.31E+05 | 3.19E+05 |
| 1/20 | 5.55E+03 | -1.19E+04 | 2.12E+04 | -1.17E+04 | 2.11E+04 | -3.45E+05 | 3.10E+05 |
| 1/15 | 9.86E+03 | -1.39E+04 | 3.06E+04 | -1.37E+04 | 3.04E+04 | -3.53E+05 | 3.08E+05 |
| 1/10 | 2.22E+04 | -1.52E+04 | 5.31E+04 | -1.47E+04 | 5.28E+04 | -3.69E+05 | 3.06E+05 |

Table Q–1654. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 676. | -4.46E+03 | 5.47E+03 | -3.65E+03 | 5.18E+03 | -2.60E+05 | 2.70E+05 |
| 1/20 | 3.84E+03 | -1.33E+04 | 1.95E+04 | -9.24E+03 | 1.91E+04 | -2.62E+05 | 3.05E+05 |
| 1/15 | 2.62E+03 | -2.04E+04 | 3.24E+04 | -1.52E+04 | 2.41E+04 | -2.68E+05 | 3.22E+05 |
| 1/10 | -8.85E+03 | -1.20E+05 | 1.36E+05 | -4.12E+04 | 3.55E+04 | -3.23E+05 | 4.43E+05 |

Table Q–1655. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_x^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_x^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1656. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -62.5 | -3.66E+03 | 4.08E+03 | -3.55E+03 | 3.99E+03 | -2.09E+05 | 2.43E+05 |
| 1/20 | -893. | -2.73E+04 | 1.58E+04 | -1.37E+04 | 1.21E+04 | -2.55E+05 | 2.59E+05 |
| 1/15 | -2.53E+03 | -4.43E+04 | 1.70E+04 | -2.10E+04 | 1.61E+04 | -2.77E+05 | 2.80E+05 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

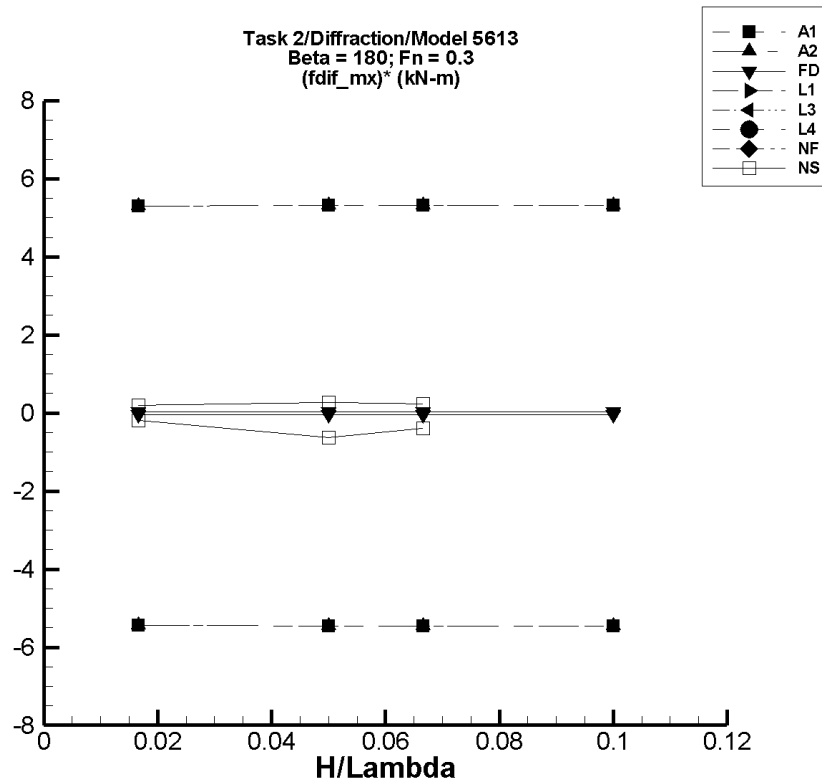


Figure Q-208. Minimum and maximum of filtered $(M_x^{\text{dif}} - \langle M_x^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1657. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.16E-04 | -9.46E-02 | 9.01E-02 | -9.16E-02 | 8.75E-02 | -5.44 | 5.30 |
| 1/20 | -2.76E-03 | -0.284 | 0.271 | -0.276 | 0.263 | -5.46 | 5.32 |
| 1/15 | -3.68E-03 | -0.380 | 0.362 | -0.368 | 0.351 | -5.46 | 5.32 |
| 1/10 | -5.52E-03 | -0.570 | 0.543 | -0.552 | 0.527 | -5.46 | 5.32 |

Table Q-1658. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.16E-04 | -9.46E-02 | 9.01E-02 | -9.16E-02 | 8.75E-02 | -5.44 | 5.30 |
| 1/20 | -2.76E-03 | -0.284 | 0.271 | -0.276 | 0.263 | -5.46 | 5.32 |
| 1/15 | -3.68E-03 | -0.380 | 0.362 | -0.368 | 0.351 | -5.46 | 5.32 |
| 1/10 | -5.52E-03 | -0.570 | 0.543 | -0.552 | 0.527 | -5.46 | 5.32 |

Table Q-1659. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.85E-07 | -6.64E-04 | 6.64E-04 | -6.44E-04 | 6.44E-04 | -3.86E-02 | 3.87E-02 |
| 1/20 | -1.15E-06 | -1.99E-03 | 1.99E-03 | -1.93E-03 | 1.93E-03 | -3.86E-02 | 3.87E-02 |
| 1/15 | -1.54E-06 | -2.66E-03 | 2.66E-03 | -2.57E-03 | 2.58E-03 | -3.86E-02 | 3.87E-02 |
| 1/10 | -2.31E-06 | -3.98E-03 | 3.98E-03 | -3.86E-03 | 3.86E-03 | -3.86E-02 | 3.87E-02 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1660. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1661. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1662. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1663. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1664. Minimum and Maximum of Variables M_x^{dif} and $(M_x^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_x^{\text{dif}} \rangle$ | Unfiltered M_x^{dif} | | Filtered M_x^{dif} | | Filtered $(M_x^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.35E-04 | -8.91E-02 | 0.110 | -3.30E-03 | 2.99E-03 | -0.190 | 0.188 |
| 1/20 | -5.69E-05 | -7.73E-02 | 9.72E-02 | -3.12E-02 | 1.37E-02 | -0.624 | 0.275 |
| 1/15 | 2.10E-04 | -0.486 | 0.456 | -2.61E-02 | 1.55E-02 | -0.394 | 0.230 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

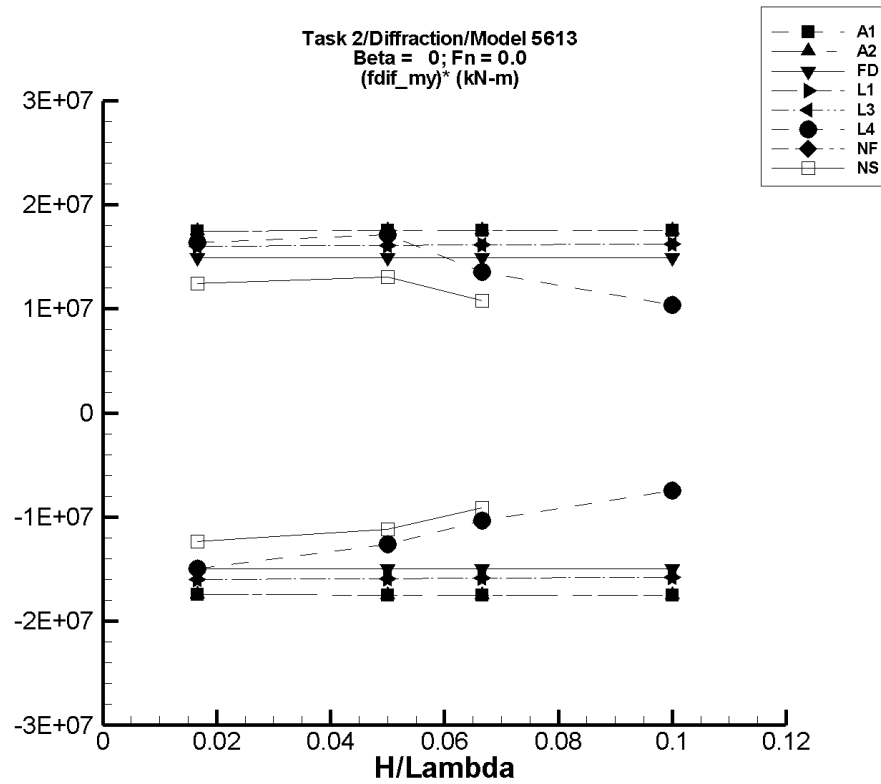


Figure Q-209. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1665. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -286. | -2.95E+05 | 2.95E+05 | -2.91E+05 | 2.91E+05 | -1.74E+07 | 1.75E+07 |
| 1/20 | -860. | -8.87E+05 | 8.86E+05 | -8.75E+05 | 8.76E+05 | -1.75E+07 | 1.75E+07 |
| 1/15 | -1.15E+03 | -1.18E+06 | 1.18E+06 | -1.17E+06 | 1.17E+06 | -1.75E+07 | 1.76E+07 |
| 1/10 | -1.72E+03 | -1.78E+06 | 1.77E+06 | -1.75E+06 | 1.75E+06 | -1.75E+07 | 1.76E+07 |

Table Q-1666. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -286. | -2.95E+05 | 2.95E+05 | -2.91E+05 | 2.91E+05 | -1.74E+07 | 1.75E+07 |
| 1/20 | -860. | -8.87E+05 | 8.86E+05 | -8.75E+05 | 8.76E+05 | -1.75E+07 | 1.75E+07 |
| 1/15 | -1.15E+03 | -1.18E+06 | 1.18E+06 | -1.17E+06 | 1.17E+06 | -1.75E+07 | 1.76E+07 |
| 1/10 | -1.72E+03 | -1.78E+06 | 1.77E+06 | -1.75E+06 | 1.75E+06 | -1.75E+07 | 1.76E+07 |

Table Q-1667. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 41.5 | -2.51E+05 | 2.51E+05 | -2.49E+05 | 2.49E+05 | -1.49E+07 | 1.49E+07 |
| 1/20 | 124. | -7.54E+05 | 7.54E+05 | -7.46E+05 | 7.46E+05 | -1.49E+07 | 1.49E+07 |
| 1/15 | 166. | -1.01E+06 | 1.00E+06 | -9.95E+05 | 9.95E+05 | -1.49E+07 | 1.49E+07 |
| 1/10 | 249. | -1.51E+06 | 1.51E+06 | -1.49E+06 | 1.49E+06 | -1.49E+07 | 1.49E+07 |

Table Q-1668. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.34E+03 | -2.71E+05 | 2.64E+05 | -2.71E+05 | 2.63E+05 | -1.60E+07 | 1.60E+07 |
| 1/20 | -4.04E+04 | -8.36E+05 | 7.68E+05 | -8.37E+05 | 7.65E+05 | -1.59E+07 | 1.61E+07 |
| 1/15 | -7.21E+04 | -1.13E+06 | 1.01E+06 | -1.13E+06 | 1.00E+06 | -1.59E+07 | 1.61E+07 |
| 1/10 | -1.63E+05 | -1.74E+06 | 1.47E+06 | -1.74E+06 | 1.46E+06 | -1.58E+07 | 1.62E+07 |

Table Q-1669. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.34E+03 | -2.71E+05 | 2.64E+05 | -2.71E+05 | 2.63E+05 | -1.60E+07 | 1.60E+07 |
| 1/20 | -4.04E+04 | -8.36E+05 | 7.68E+05 | -8.36E+05 | 7.65E+05 | -1.59E+07 | 1.61E+07 |
| 1/15 | -7.21E+04 | -1.13E+06 | 1.01E+06 | -1.13E+06 | 1.00E+06 | -1.59E+07 | 1.62E+07 |
| 1/10 | -1.63E+05 | -1.74E+06 | 1.47E+06 | -1.74E+06 | 1.46E+06 | -1.58E+07 | 1.62E+07 |

Table Q-1670. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -7.08E+03 | -2.58E+05 | 2.80E+05 | -2.57E+05 | 2.66E+05 | -1.50E+07 | 1.64E+07 |
| 1/20 | -3.44E+04 | -6.80E+05 | 9.55E+05 | -6.66E+05 | 8.22E+05 | -1.26E+07 | 1.71E+07 |
| 1/15 | -2.58E+04 | -7.56E+05 | 9.06E+05 | -7.17E+05 | 8.76E+05 | -1.04E+07 | 1.35E+07 |
| 1/10 | 2.11E+03 | -8.05E+05 | 1.13E+06 | -7.45E+05 | 1.04E+06 | -7.47E+06 | 1.04E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1671. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1672. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.92E+03 | -2.13E+05 | 2.07E+05 | -2.10E+05 | 2.03E+05 | -1.24E+07 | 1.24E+07 |
| 1/20 | -4.14E+04 | -6.28E+05 | 7.73E+05 | -6.00E+05 | 6.12E+05 | -1.12E+07 | 1.31E+07 |
| 1/15 | -3.12E+04 | -6.57E+05 | 7.72E+05 | -6.41E+05 | 6.88E+05 | -9.14E+06 | 1.08E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

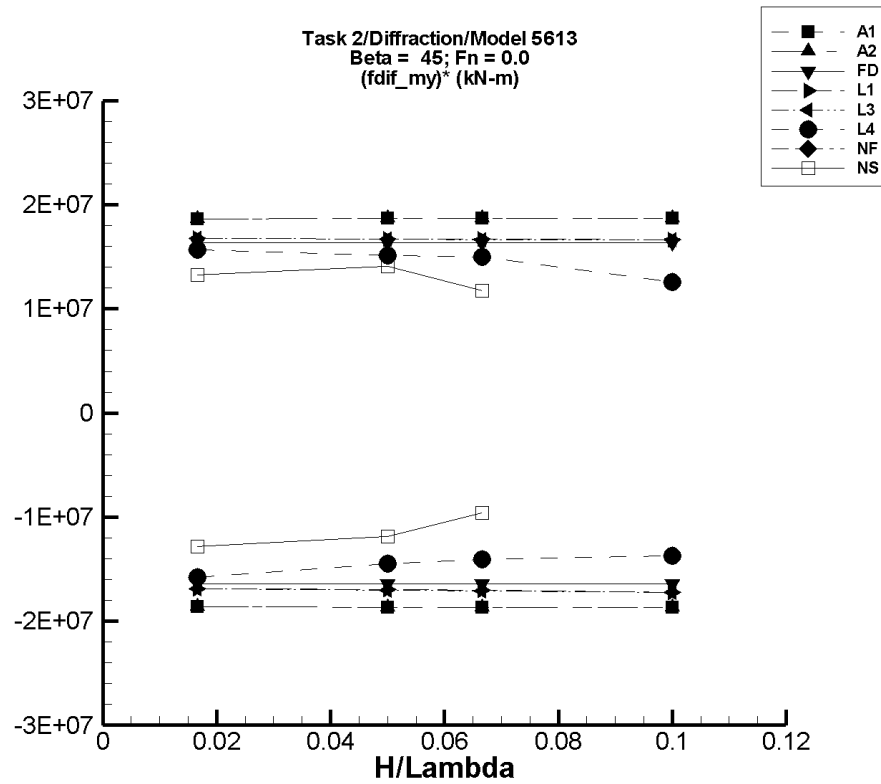


Figure Q-210. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1673. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -161. | -3.13E+05 | 3.13E+05 | -3.11E+05 | 3.10E+05 | -1.86E+07 | 1.86E+07 |
| 1/20 | -485. | -9.43E+05 | 9.42E+05 | -9.34E+05 | 9.33E+05 | -1.87E+07 | 1.87E+07 |
| 1/15 | -647. | -1.26E+06 | 1.26E+06 | -1.25E+06 | 1.25E+06 | -1.87E+07 | 1.87E+07 |
| 1/10 | -971. | -1.89E+06 | 1.89E+06 | -1.87E+06 | 1.87E+06 | -1.87E+07 | 1.87E+07 |

Table Q-1674. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -161. | -3.13E+05 | 3.13E+05 | -3.11E+05 | 3.10E+05 | -1.86E+07 | 1.86E+07 |
| 1/20 | -485. | -9.43E+05 | 9.42E+05 | -9.34E+05 | 9.33E+05 | -1.87E+07 | 1.87E+07 |
| 1/15 | -647. | -1.26E+06 | 1.26E+06 | -1.25E+06 | 1.25E+06 | -1.87E+07 | 1.87E+07 |
| 1/10 | -971. | -1.89E+06 | 1.89E+06 | -1.87E+06 | 1.87E+06 | -1.87E+07 | 1.87E+07 |

Table Q-1675. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.03 | -2.76E+05 | 2.76E+05 | -2.73E+05 | 2.73E+05 | -1.64E+07 | 1.64E+07 |
| 1/20 | 18.1 | -8.27E+05 | 8.27E+05 | -8.19E+05 | 8.19E+05 | -1.64E+07 | 1.64E+07 |
| 1/15 | 24.2 | -1.10E+06 | 1.10E+06 | -1.09E+06 | 1.09E+06 | -1.64E+07 | 1.64E+07 |
| 1/10 | 36.3 | -1.65E+06 | 1.65E+06 | -1.64E+06 | 1.64E+06 | -1.64E+07 | 1.64E+07 |

Table Q-1676. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.65E+03 | -2.84E+05 | 2.79E+05 | -2.83E+05 | 2.78E+05 | -1.69E+07 | 1.68E+07 |
| 1/20 | -1.51E+04 | -8.67E+05 | 8.23E+05 | -8.64E+05 | 8.20E+05 | -1.70E+07 | 1.67E+07 |
| 1/15 | -2.70E+04 | -1.17E+06 | 1.09E+06 | -1.16E+06 | 1.08E+06 | -1.71E+07 | 1.67E+07 |
| 1/10 | -6.08E+04 | -1.79E+06 | 1.61E+06 | -1.78E+06 | 1.60E+06 | -1.72E+07 | 1.67E+07 |

Table Q-1677. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.65E+03 | -2.84E+05 | 2.79E+05 | -2.83E+05 | 2.78E+05 | -1.69E+07 | 1.68E+07 |
| 1/20 | -1.51E+04 | -8.68E+05 | 8.22E+05 | -8.65E+05 | 8.19E+05 | -1.70E+07 | 1.67E+07 |
| 1/15 | -2.70E+04 | -1.17E+06 | 1.09E+06 | -1.16E+06 | 1.08E+06 | -1.71E+07 | 1.66E+07 |
| 1/10 | -6.09E+04 | -1.79E+06 | 1.61E+06 | -1.78E+06 | 1.60E+06 | -1.72E+07 | 1.66E+07 |

Table Q-1678. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.78E+03 | -2.69E+05 | 2.68E+05 | -2.67E+05 | 2.58E+05 | -1.58E+07 | 1.57E+07 |
| 1/20 | -6.00E+03 | -7.43E+05 | 8.37E+05 | -7.31E+05 | 7.52E+05 | -1.45E+07 | 1.51E+07 |
| 1/15 | 1.17E+04 | -9.39E+05 | 1.10E+06 | -9.27E+05 | 1.01E+06 | -1.41E+07 | 1.50E+07 |
| 1/10 | 8.98E+04 | -1.38E+06 | 1.42E+06 | -1.28E+06 | 1.35E+06 | -1.37E+07 | 1.26E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1679. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1680. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.74E+03 | -2.21E+05 | 2.20E+05 | -2.18E+05 | 2.17E+05 | -1.29E+07 | 1.32E+07 |
| 1/20 | -3.92E+04 | -6.80E+05 | 8.20E+05 | -6.34E+05 | 6.63E+05 | -1.19E+07 | 1.41E+07 |
| 1/15 | -1.67E+04 | -6.92E+05 | 1.33E+06 | -6.56E+05 | 7.66E+05 | -9.59E+06 | 1.17E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

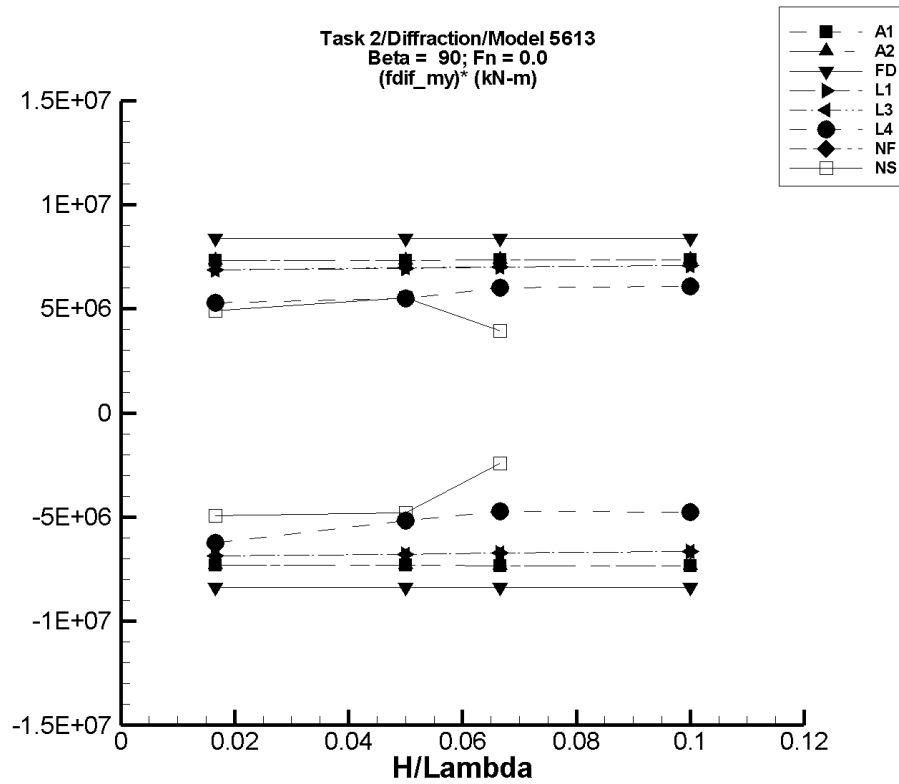


Figure Q-211. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1681. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 350. | -1.23E+05 | 1.24E+05 | -1.21E+05 | 1.22E+05 | -7.30E+06 | 7.32E+06 |
| 1/20 | 1.05E+03 | -3.69E+05 | 3.72E+05 | -3.65E+05 | 3.68E+05 | -7.32E+06 | 7.33E+06 |
| 1/15 | 1.41E+03 | -4.92E+05 | 4.96E+05 | -4.87E+05 | 4.91E+05 | -7.33E+06 | 7.34E+06 |
| 1/10 | 2.11E+03 | -7.39E+05 | 7.44E+05 | -7.31E+05 | 7.36E+05 | -7.33E+06 | 7.34E+06 |

Table Q-1682. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 350. | -1.23E+05 | 1.24E+05 | -1.21E+05 | 1.22E+05 | -7.30E+06 | 7.32E+06 |
| 1/20 | 1.05E+03 | -3.69E+05 | 3.72E+05 | -3.65E+05 | 3.68E+05 | -7.32E+06 | 7.33E+06 |
| 1/15 | 1.41E+03 | -4.92E+05 | 4.96E+05 | -4.87E+05 | 4.91E+05 | -7.33E+06 | 7.34E+06 |
| 1/10 | 2.11E+03 | -7.39E+05 | 7.44E+05 | -7.31E+05 | 7.36E+05 | -7.33E+06 | 7.34E+06 |

Table Q-1683. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -65.1 | -1.41E+05 | 1.41E+05 | -1.40E+05 | 1.40E+05 | -8.37E+06 | 8.38E+06 |
| 1/20 | -195. | -4.23E+05 | 4.23E+05 | -4.19E+05 | 4.19E+05 | -8.37E+06 | 8.38E+06 |
| 1/15 | -260. | -5.64E+05 | 5.64E+05 | -5.59E+05 | 5.59E+05 | -8.37E+06 | 8.38E+06 |
| 1/10 | -390. | -8.46E+05 | 8.47E+05 | -8.38E+05 | 8.38E+05 | -8.37E+06 | 8.38E+06 |

Table Q-1684. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.39E+03 | -1.15E+05 | 1.14E+05 | -1.16E+05 | 1.13E+05 | -6.86E+06 | 6.87E+06 |
| 1/20 | -1.27E+04 | -3.50E+05 | 3.37E+05 | -3.52E+05 | 3.35E+05 | -6.78E+06 | 6.96E+06 |
| 1/15 | -2.26E+04 | -4.70E+05 | 4.46E+05 | -4.72E+05 | 4.44E+05 | -6.74E+06 | 7.00E+06 |
| 1/10 | -5.10E+04 | -7.15E+05 | 6.61E+05 | -7.17E+05 | 6.58E+05 | -6.66E+06 | 7.09E+06 |

Table Q-1685. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.39E+03 | -1.15E+05 | 1.14E+05 | -1.16E+05 | 1.13E+05 | -6.86E+06 | 6.88E+06 |
| 1/20 | -1.27E+04 | -3.50E+05 | 3.37E+05 | -3.52E+05 | 3.35E+05 | -6.78E+06 | 6.96E+06 |
| 1/15 | -2.26E+04 | -4.69E+05 | 4.46E+05 | -4.72E+05 | 4.44E+05 | -6.74E+06 | 7.00E+06 |
| 1/10 | -5.10E+04 | -7.14E+05 | 6.61E+05 | -7.17E+05 | 6.58E+05 | -6.66E+06 | 7.09E+06 |

Table Q-1686. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.01E+03 | -1.07E+05 | 9.80E+04 | -1.07E+05 | 8.50E+04 | -6.24E+06 | 5.28E+06 |
| 1/20 | -1.07E+04 | -2.81E+05 | 2.98E+05 | -2.70E+05 | 2.65E+05 | -5.19E+06 | 5.51E+06 |
| 1/15 | -1.91E+04 | -3.53E+05 | 4.29E+05 | -3.35E+05 | 3.82E+05 | -4.74E+06 | 6.02E+06 |
| 1/10 | 3.37E+04 | -1.28E+06 | 1.58E+06 | -4.43E+05 | 6.43E+05 | -4.76E+06 | 6.09E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1687. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1688. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.35E+03 | -8.71E+04 | 8.51E+04 | -8.53E+04 | 7.86E+04 | -4.92E+06 | 4.91E+06 |
| 1/20 | -3.79E+04 | -3.79E+05 | 3.59E+05 | -2.78E+05 | 2.38E+05 | -4.80E+06 | 5.52E+06 |
| 1/15 | -4.14E+03 | -1.89E+05 | 6.82E+05 | -1.65E+05 | 2.59E+05 | -2.41E+06 | 3.95E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

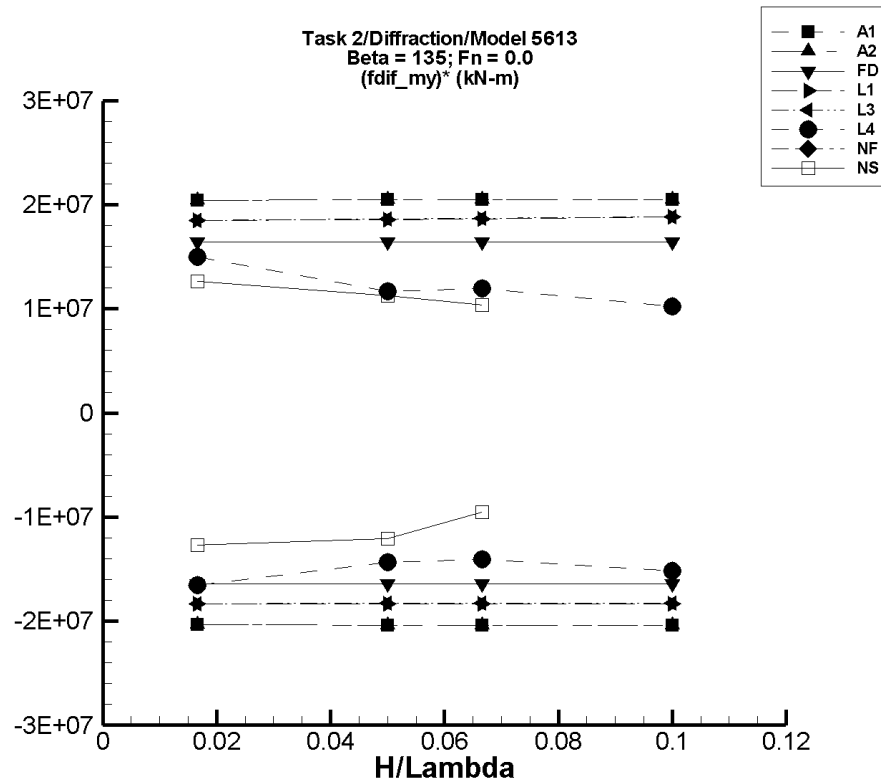


Figure Q-212. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1689. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 255. | -3.42E+05 | 3.44E+05 | -3.38E+05 | 3.41E+05 | -2.03E+07 | 2.04E+07 |
| 1/20 | 766. | -1.03E+06 | 1.03E+06 | -1.02E+06 | 1.03E+06 | -2.04E+07 | 2.05E+07 |
| 1/15 | 1.02E+03 | -1.37E+06 | 1.38E+06 | -1.36E+06 | 1.37E+06 | -2.04E+07 | 2.05E+07 |
| 1/10 | 1.53E+03 | -2.06E+06 | 2.07E+06 | -2.04E+06 | 2.05E+06 | -2.04E+07 | 2.05E+07 |

Table Q-1690. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 255. | -3.42E+05 | 3.44E+05 | -3.38E+05 | 3.41E+05 | -2.03E+07 | 2.04E+07 |
| 1/20 | 766. | -1.03E+06 | 1.03E+06 | -1.02E+06 | 1.03E+06 | -2.04E+07 | 2.05E+07 |
| 1/15 | 1.02E+03 | -1.37E+06 | 1.38E+06 | -1.36E+06 | 1.37E+06 | -2.04E+07 | 2.05E+07 |
| 1/10 | 1.53E+03 | -2.06E+06 | 2.07E+06 | -2.04E+06 | 2.05E+06 | -2.04E+07 | 2.05E+07 |

Table Q-1691. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.66 | -2.76E+05 | 2.76E+05 | -2.74E+05 | 2.74E+05 | -1.64E+07 | 1.64E+07 |
| 1/20 | 20.1 | -8.29E+05 | 8.29E+05 | -8.21E+05 | 8.21E+05 | -1.64E+07 | 1.64E+07 |
| 1/15 | 26.7 | -1.11E+06 | 1.11E+06 | -1.09E+06 | 1.09E+06 | -1.64E+07 | 1.64E+07 |
| 1/10 | 40.1 | -1.66E+06 | 1.66E+06 | -1.64E+06 | 1.64E+06 | -1.64E+07 | 1.64E+07 |

Table Q-1692. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.97E+03 | -3.11E+05 | 3.05E+05 | -3.10E+05 | 3.04E+05 | -1.84E+07 | 1.85E+07 |
| 1/20 | -3.39E+04 | -9.53E+05 | 8.99E+05 | -9.50E+05 | 8.95E+05 | -1.83E+07 | 1.86E+07 |
| 1/15 | -5.98E+04 | -1.28E+06 | 1.19E+06 | -1.28E+06 | 1.18E+06 | -1.83E+07 | 1.87E+07 |
| 1/10 | -1.34E+05 | -1.97E+06 | 1.75E+06 | -1.97E+06 | 1.75E+06 | -1.83E+07 | 1.88E+07 |

Table Q-1693. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.96E+03 | -3.11E+05 | 3.05E+05 | -3.10E+05 | 3.04E+05 | -1.84E+07 | 1.85E+07 |
| 1/20 | -3.39E+04 | -9.52E+05 | 9.00E+05 | -9.49E+05 | 8.96E+05 | -1.83E+07 | 1.86E+07 |
| 1/15 | -5.98E+04 | -1.28E+06 | 1.19E+06 | -1.28E+06 | 1.19E+06 | -1.83E+07 | 1.87E+07 |
| 1/10 | -1.34E+05 | -1.97E+06 | 1.76E+06 | -1.96E+06 | 1.75E+06 | -1.83E+07 | 1.88E+07 |

Table Q-1694. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.54E+04 | -2.94E+05 | 2.36E+05 | -2.92E+05 | 2.34E+05 | -1.66E+07 | 1.50E+07 |
| 1/20 | -1.26E+05 | -8.49E+05 | 4.74E+05 | -8.44E+05 | 4.58E+05 | -1.44E+07 | 1.17E+07 |
| 1/15 | -2.16E+05 | -1.17E+06 | 6.06E+05 | -1.15E+06 | 5.79E+05 | -1.41E+07 | 1.19E+07 |
| 1/10 | -2.53E+05 | -1.82E+06 | 8.51E+05 | -1.77E+06 | 7.74E+05 | -1.52E+07 | 1.03E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1695. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1696. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.47E+03 | -2.16E+05 | 2.10E+05 | -2.14E+05 | 2.08E+05 | -1.27E+07 | 1.26E+07 |
| 1/20 | -3.55E+04 | -6.80E+05 | 6.66E+05 | -6.39E+05 | 5.27E+05 | -1.21E+07 | 1.12E+07 |
| 1/15 | -1.40E+04 | -6.69E+05 | 9.10E+05 | -6.48E+05 | 6.80E+05 | -9.51E+06 | 1.04E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

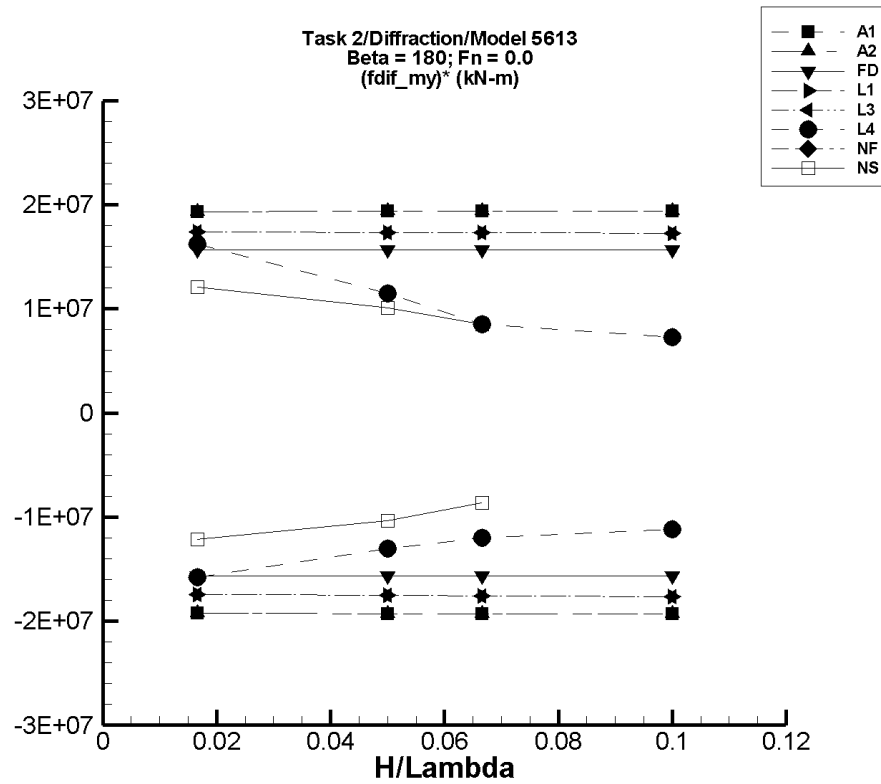


Figure Q-213. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1697. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 53.1 | -3.24E+05 | 3.26E+05 | -3.21E+05 | 3.22E+05 | -1.92E+07 | 1.93E+07 |
| 1/20 | 160. | -9.75E+05 | 9.79E+05 | -9.64E+05 | 9.69E+05 | -1.93E+07 | 1.94E+07 |
| 1/15 | 214. | -1.30E+06 | 1.31E+06 | -1.29E+06 | 1.29E+06 | -1.93E+07 | 1.94E+07 |
| 1/10 | 320. | -1.95E+06 | 1.96E+06 | -1.93E+06 | 1.94E+06 | -1.93E+07 | 1.94E+07 |

Table Q-1698. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 53.1 | -3.24E+05 | 3.26E+05 | -3.21E+05 | 3.22E+05 | -1.92E+07 | 1.93E+07 |
| 1/20 | 160. | -9.75E+05 | 9.79E+05 | -9.64E+05 | 9.69E+05 | -1.93E+07 | 1.94E+07 |
| 1/15 | 214. | -1.30E+06 | 1.31E+06 | -1.29E+06 | 1.29E+06 | -1.93E+07 | 1.94E+07 |
| 1/10 | 320. | -1.95E+06 | 1.96E+06 | -1.93E+06 | 1.94E+06 | -1.93E+07 | 1.94E+07 |

Table Q-1699. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 44.9 | -2.64E+05 | 2.64E+05 | -2.61E+05 | 2.61E+05 | -1.57E+07 | 1.57E+07 |
| 1/20 | 135. | -7.91E+05 | 7.91E+05 | -7.83E+05 | 7.83E+05 | -1.57E+07 | 1.57E+07 |
| 1/15 | 180. | -1.05E+06 | 1.05E+06 | -1.04E+06 | 1.04E+06 | -1.57E+07 | 1.57E+07 |
| 1/10 | 270. | -1.58E+06 | 1.58E+06 | -1.57E+06 | 1.57E+06 | -1.57E+07 | 1.57E+07 |

Table Q-1700. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.95E+03 | -2.94E+05 | 2.89E+05 | -2.93E+05 | 2.88E+05 | -1.75E+07 | 1.74E+07 |
| 1/20 | -1.68E+04 | -8.97E+05 | 8.53E+05 | -8.94E+05 | 8.50E+05 | -1.75E+07 | 1.73E+07 |
| 1/15 | -2.96E+04 | -1.21E+06 | 1.13E+06 | -1.20E+06 | 1.12E+06 | -1.76E+07 | 1.73E+07 |
| 1/10 | -6.63E+04 | -1.84E+06 | 1.66E+06 | -1.83E+06 | 1.66E+06 | -1.76E+07 | 1.72E+07 |

Table Q-1701. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.94E+03 | -2.94E+05 | 2.89E+05 | -2.93E+05 | 2.88E+05 | -1.75E+07 | 1.74E+07 |
| 1/20 | -1.67E+04 | -8.97E+05 | 8.53E+05 | -8.94E+05 | 8.50E+05 | -1.75E+07 | 1.73E+07 |
| 1/15 | -2.96E+04 | -1.21E+06 | 1.13E+06 | -1.20E+06 | 1.12E+06 | -1.76E+07 | 1.73E+07 |
| 1/10 | -6.63E+04 | -1.84E+06 | 1.66E+06 | -1.83E+06 | 1.66E+06 | -1.76E+07 | 1.72E+07 |

Table Q-1702. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.19E+04 | -2.76E+05 | 2.64E+05 | -2.75E+05 | 2.58E+05 | -1.58E+07 | 1.62E+07 |
| 1/20 | -1.05E+05 | -7.62E+05 | 5.26E+05 | -7.57E+05 | 4.70E+05 | -1.30E+07 | 1.15E+07 |
| 1/15 | -1.67E+05 | -9.71E+05 | 4.44E+05 | -9.65E+05 | 4.01E+05 | -1.20E+07 | 8.52E+06 |
| 1/10 | -2.12E+05 | -2.14E+06 | 6.33E+05 | -1.33E+06 | 5.19E+05 | -1.12E+07 | 7.31E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1703. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1704. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.93E+03 | -2.08E+05 | 2.00E+05 | -2.05E+05 | 1.98E+05 | -1.21E+07 | 1.21E+07 |
| 1/20 | -4.15E+04 | -5.69E+05 | 5.29E+05 | -5.58E+05 | 4.62E+05 | -1.03E+07 | 1.01E+07 |
| 1/15 | -3.25E+04 | -6.21E+05 | 8.01E+05 | -6.09E+05 | 5.33E+05 | -8.64E+06 | 8.49E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

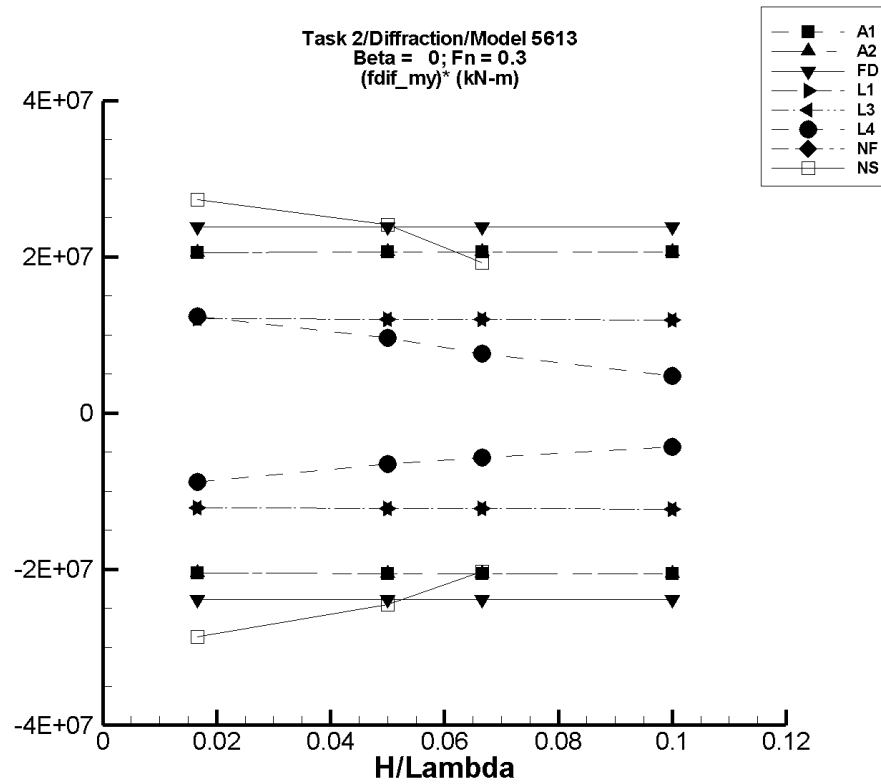


Figure Q-214. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 0^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q–1705. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 113. | -3.45E+05 | 3.44E+05 | -3.42E+05 | 3.42E+05 | -2.05E+07 | 2.05E+07 |
| 1/20 | 341. | -1.04E+06 | 1.03E+06 | -1.03E+06 | 1.03E+06 | -2.06E+07 | 2.06E+07 |
| 1/15 | 455. | -1.38E+06 | 1.38E+06 | -1.37E+06 | 1.37E+06 | -2.06E+07 | 2.06E+07 |
| 1/10 | 682. | -2.08E+06 | 2.07E+06 | -2.06E+06 | 2.06E+06 | -2.06E+07 | 2.06E+07 |

Table Q–1706. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------------------------|------------------------|-----------------------------------------------|------------------------|---------------------------------------------------|------------------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 113. | -3.45E+05 | 3.44E+05 | -3.42E+05 | 3.42E+05 | -2.05E+07 | 2.05E+07 |
| 1/20 | 341. | -1.04E+06 | 1.03E+06 | -1.03E+06 | 1.03E+06 | -2.06E+07 | 2.06E+07 |
| 1/15 | 455. | -1.38E+06 | 1.38E+06 | -1.37E+06 | 1.37E+06 | -2.06E+07 | 2.06E+07 |
| 1/10 | 682. | -2.08E+06 | 2.07E+06 | -2.06E+06 | 2.06E+06 | -2.06E+07 | 2.06E+07 |

Table Q–1707. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -0.660 | -3.97E+05 | 3.97E+05 | -3.98E+05 | 3.97E+05 | -2.39E+07 | 2.38E+07 |
| 1/20 | -2.12 | -1.19E+06 | 1.19E+06 | -1.19E+06 | 1.19E+06 | -2.39E+07 | 2.38E+07 |
| 1/15 | -2.67 | -1.59E+06 | 1.59E+06 | -1.59E+06 | 1.59E+06 | -2.39E+07 | 2.38E+07 |
| 1/10 | -4.24 | -2.38E+06 | 2.38E+06 | -2.39E+06 | 2.38E+06 | -2.39E+07 | 2.38E+07 |

Table Q–1708. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.13E+04 | -2.14E+05 | 1.90E+05 | -2.14E+05 | 1.90E+05 | -1.22E+07 | 1.21E+07 |
| 1/20 | -1.72E+04 | -6.29E+05 | 5.84E+05 | -6.30E+05 | 5.84E+05 | -1.22E+07 | 1.20E+07 |
| 1/15 | -2.24E+04 | -8.41E+05 | 7.77E+05 | -8.41E+05 | 7.77E+05 | -1.23E+07 | 1.20E+07 |
| 1/10 | -3.74E+04 | -1.27E+06 | 1.16E+06 | -1.27E+06 | 1.16E+06 | -1.24E+07 | 1.19E+07 |

Table Q-1709. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.13E+04 | -2.14E+05 | 1.90E+05 | -2.14E+05 | 1.90E+05 | -1.22E+07 | 1.21E+07 |
| 1/20 | -1.72E+04 | -6.29E+05 | 5.84E+05 | -6.30E+05 | 5.84E+05 | -1.22E+07 | 1.20E+07 |
| 1/15 | -2.24E+04 | -8.41E+05 | 7.77E+05 | -8.41E+05 | 7.77E+05 | -1.23E+07 | 1.20E+07 |
| 1/10 | -3.74E+04 | -1.27E+06 | 1.16E+06 | -1.27E+06 | 1.16E+06 | -1.24E+07 | 1.19E+07 |

Table Q-1710. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.73E+04 | -1.87E+05 | 1.72E+05 | -1.84E+05 | 1.68E+05 | -8.83E+06 | 1.23E+07 |
| 1/20 | -6.83E+04 | -4.06E+05 | 4.25E+05 | -3.97E+05 | 4.13E+05 | -6.57E+06 | 9.64E+06 |
| 1/15 | -5.92E+04 | -4.65E+05 | 4.58E+05 | -4.41E+05 | 4.45E+05 | -5.73E+06 | 7.56E+06 |
| 1/10 | 8.28E+03 | -1.02E+06 | 8.18E+05 | -4.30E+05 | 4.83E+05 | -4.38E+06 | 4.74E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1711. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1712. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 0^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.57E+04 | -4.48E+05 | 4.95E+05 | -4.42E+05 | 4.90E+05 | -2.87E+07 | 2.73E+07 |
| 1/20 | -7.02E+04 | -1.32E+06 | 1.15E+06 | -1.30E+06 | 1.14E+06 | -2.46E+07 | 2.41E+07 |
| 1/15 | -3.19E+04 | -1.39E+06 | 1.27E+06 | -1.38E+06 | 1.25E+06 | -2.03E+07 | 1.93E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

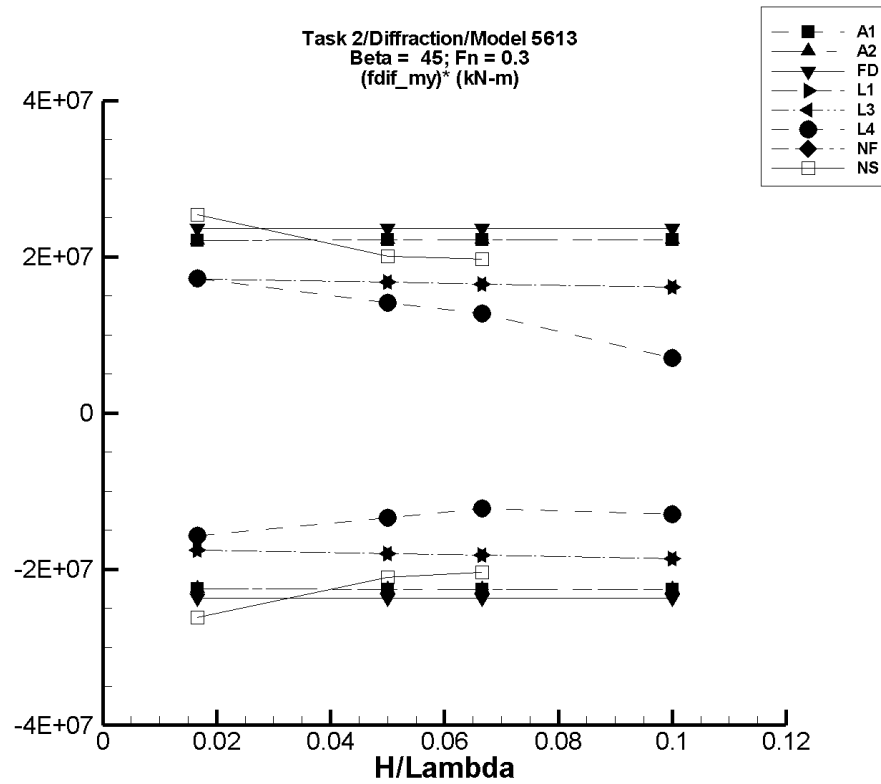


Figure Q-215. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1713. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.10E+03 | -3.75E+05 | 3.70E+05 | -3.75E+05 | 3.69E+05 | -2.25E+07 | 2.21E+07 |
| 1/20 | 3.32E+03 | -1.13E+06 | 1.11E+06 | -1.13E+06 | 1.11E+06 | -2.26E+07 | 2.22E+07 |
| 1/15 | 4.43E+03 | -1.51E+06 | 1.49E+06 | -1.50E+06 | 1.48E+06 | -2.26E+07 | 2.22E+07 |
| 1/10 | 6.65E+03 | -2.26E+06 | 2.23E+06 | -2.26E+06 | 2.23E+06 | -2.26E+07 | 2.22E+07 |

Table Q-1714. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.10E+03 | -3.75E+05 | 3.70E+05 | -3.75E+05 | 3.69E+05 | -2.25E+07 | 2.21E+07 |
| 1/20 | 3.32E+03 | -1.13E+06 | 1.11E+06 | -1.13E+06 | 1.11E+06 | -2.26E+07 | 2.22E+07 |
| 1/15 | 4.43E+03 | -1.51E+06 | 1.49E+06 | -1.50E+06 | 1.48E+06 | -2.26E+07 | 2.22E+07 |
| 1/10 | 6.65E+03 | -2.26E+06 | 2.23E+06 | -2.26E+06 | 2.23E+06 | -2.26E+07 | 2.22E+07 |

Table Q-1715. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -93.7 | -3.96E+05 | 3.96E+05 | -3.95E+05 | 3.95E+05 | -2.37E+07 | 2.37E+07 |
| 1/20 | -281. | -1.19E+06 | 1.19E+06 | -1.18E+06 | 1.18E+06 | -2.37E+07 | 2.37E+07 |
| 1/15 | -375. | -1.58E+06 | 1.58E+06 | -1.58E+06 | 1.58E+06 | -2.37E+07 | 2.37E+07 |
| 1/10 | -563. | -2.37E+06 | 2.37E+06 | -2.37E+06 | 2.37E+06 | -2.37E+07 | 2.37E+07 |

Table Q-1716. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.26E+04 | -3.06E+05 | 2.74E+05 | -3.06E+05 | 2.74E+05 | -1.76E+07 | 1.72E+07 |
| 1/20 | -2.73E+04 | -9.29E+05 | 8.10E+05 | -9.28E+05 | 8.10E+05 | -1.80E+07 | 1.67E+07 |
| 1/15 | -4.02E+04 | -1.26E+06 | 1.06E+06 | -1.25E+06 | 1.06E+06 | -1.82E+07 | 1.65E+07 |
| 1/10 | -7.68E+04 | -1.94E+06 | 1.54E+06 | -1.94E+06 | 1.53E+06 | -1.86E+07 | 1.61E+07 |

Table Q-1717. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.26E+04 | -3.06E+05 | 2.74E+05 | -3.06E+05 | 2.74E+05 | -1.76E+07 | 1.72E+07 |
| 1/20 | -2.73E+04 | -9.29E+05 | 8.11E+05 | -9.28E+05 | 8.10E+05 | -1.80E+07 | 1.67E+07 |
| 1/15 | -4.01E+04 | -1.26E+06 | 1.06E+06 | -1.26E+06 | 1.06E+06 | -1.82E+07 | 1.65E+07 |
| 1/10 | -7.67E+04 | -1.94E+06 | 1.54E+06 | -1.94E+06 | 1.53E+06 | -1.86E+07 | 1.61E+07 |

Table Q-1718. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.12E+04 | -3.05E+05 | 2.49E+05 | -3.03E+05 | 2.46E+05 | -1.57E+07 | 1.72E+07 |
| 1/20 | -9.83E+04 | -7.70E+05 | 6.15E+05 | -7.68E+05 | 6.09E+05 | -1.34E+07 | 1.41E+07 |
| 1/15 | -1.06E+05 | -9.28E+05 | 7.53E+05 | -9.22E+05 | 7.45E+05 | -1.22E+07 | 1.28E+07 |
| 1/10 | 2.01E+04 | -1.30E+06 | 3.12E+06 | -1.27E+06 | 7.23E+05 | -1.29E+07 | 7.03E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1719. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1720. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.31E+04 | -4.20E+05 | 4.52E+05 | -4.14E+05 | 4.47E+05 | -2.62E+07 | 2.54E+07 |
| 1/20 | -1.49E+04 | -1.09E+06 | 1.06E+06 | -1.07E+06 | 9.90E+05 | -2.10E+07 | 2.01E+07 |
| 1/15 | -4.40E+04 | -1.43E+06 | 1.45E+06 | -1.40E+06 | 1.27E+06 | -2.04E+07 | 1.97E+07 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

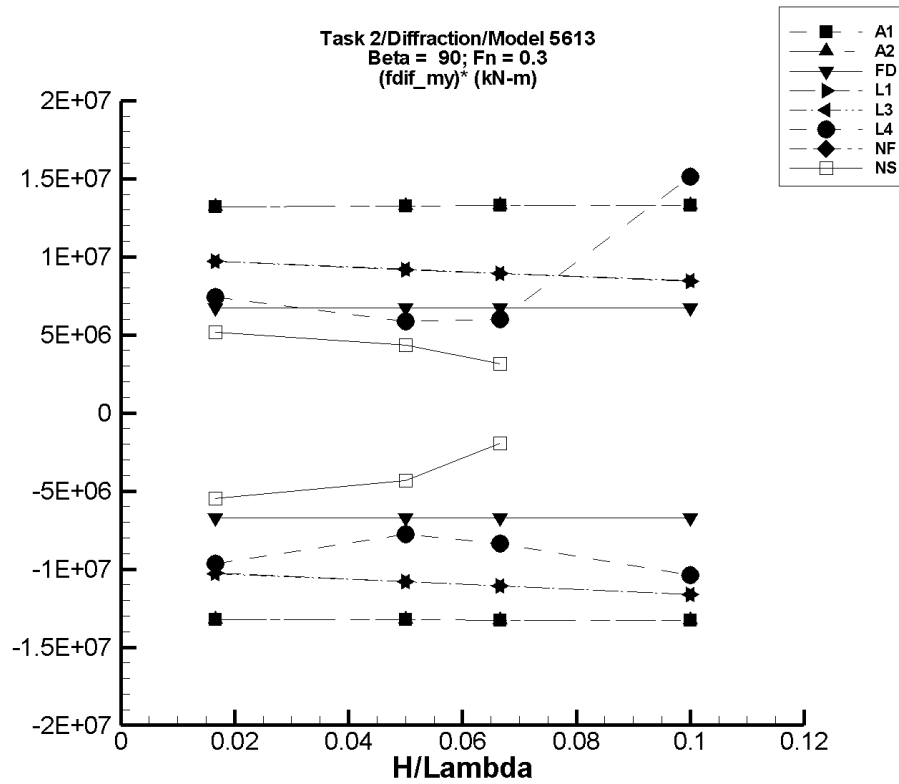


Figure Q-216. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1721. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 708. | -2.22E+05 | 2.24E+05 | -2.20E+05 | 2.21E+05 | -1.32E+07 | 1.32E+07 |
| 1/20 | 2.13E+03 | -6.68E+05 | 6.73E+05 | -6.60E+05 | 6.65E+05 | -1.32E+07 | 1.33E+07 |
| 1/15 | 2.84E+03 | -8.92E+05 | 8.98E+05 | -8.81E+05 | 8.88E+05 | -1.33E+07 | 1.33E+07 |
| 1/10 | 4.27E+03 | -1.34E+06 | 1.35E+06 | -1.32E+06 | 1.33E+06 | -1.33E+07 | 1.33E+07 |

Table Q-1722. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 708. | -2.22E+05 | 2.24E+05 | -2.20E+05 | 2.21E+05 | -1.32E+07 | 1.32E+07 |
| 1/20 | 2.13E+03 | -6.68E+05 | 6.73E+05 | -6.60E+05 | 6.65E+05 | -1.32E+07 | 1.33E+07 |
| 1/15 | 2.84E+03 | -8.92E+05 | 8.98E+05 | -8.81E+05 | 8.88E+05 | -1.33E+07 | 1.33E+07 |
| 1/10 | 4.27E+03 | -1.34E+06 | 1.35E+06 | -1.32E+06 | 1.33E+06 | -1.33E+07 | 1.33E+07 |

Table Q-1723. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -49.4 | -1.13E+05 | 1.13E+05 | -1.12E+05 | 1.12E+05 | -6.72E+06 | 6.72E+06 |
| 1/20 | -148. | -3.39E+05 | 3.39E+05 | -3.36E+05 | 3.36E+05 | -6.72E+06 | 6.72E+06 |
| 1/15 | -197. | -4.53E+05 | 4.52E+05 | -4.48E+05 | 4.48E+05 | -6.72E+06 | 6.72E+06 |
| 1/10 | -296. | -6.79E+05 | 6.79E+05 | -6.72E+05 | 6.72E+05 | -6.72E+06 | 6.72E+06 |

Table Q-1724. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.47E+04 | -1.87E+05 | 1.48E+05 | -1.86E+05 | 1.47E+05 | -1.03E+07 | 9.72E+06 |
| 1/20 | -4.73E+04 | -5.90E+05 | 4.13E+05 | -5.88E+05 | 4.12E+05 | -1.08E+07 | 9.18E+06 |
| 1/15 | -7.58E+04 | -8.19E+05 | 5.20E+05 | -8.15E+05 | 5.19E+05 | -1.11E+07 | 8.92E+06 |
| 1/10 | -1.57E+05 | -1.33E+06 | 6.86E+05 | -1.32E+06 | 6.84E+05 | -1.16E+07 | 8.42E+06 |

Table Q-1725. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.47E+04 | -1.87E+05 | 1.48E+05 | -1.86E+05 | 1.47E+05 | -1.03E+07 | 9.72E+06 |
| 1/20 | -4.73E+04 | -5.90E+05 | 4.14E+05 | -5.88E+05 | 4.12E+05 | -1.08E+07 | 9.20E+06 |
| 1/15 | -7.58E+04 | -8.18E+05 | 5.21E+05 | -8.15E+05 | 5.20E+05 | -1.11E+07 | 8.94E+06 |
| 1/10 | -1.57E+05 | -1.33E+06 | 6.90E+05 | -1.32E+06 | 6.88E+05 | -1.16E+07 | 8.45E+06 |

Table Q-1726. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -4.86E+04 | -2.10E+05 | 9.04E+04 | -2.10E+05 | 7.49E+04 | -9.67E+06 | 7.41E+06 |
| 1/20 | -1.49E+05 | -5.39E+05 | 2.30E+05 | -5.37E+05 | 1.44E+05 | -7.77E+06 | 5.85E+06 |
| 1/15 | -1.90E+05 | -7.88E+05 | 2.64E+05 | -7.48E+05 | 2.11E+05 | -8.38E+06 | 6.02E+06 |
| 1/10 | -1.24E+05 | -3.62E+06 | 5.14E+06 | -1.16E+06 | 1.39E+06 | -1.04E+07 | 1.51E+07 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1727. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1728. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.86E+03 | -9.85E+04 | 1.09E+05 | -8.95E+04 | 8.77E+04 | -5.48E+06 | 5.15E+06 |
| 1/20 | -7.38E+04 | -4.26E+05 | 2.25E+05 | -2.91E+05 | 1.44E+05 | -4.35E+06 | 4.36E+06 |
| 1/15 | -1.68E+04 | -2.85E+05 | 6.04E+05 | -1.46E+05 | 1.92E+05 | -1.94E+06 | 3.13E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

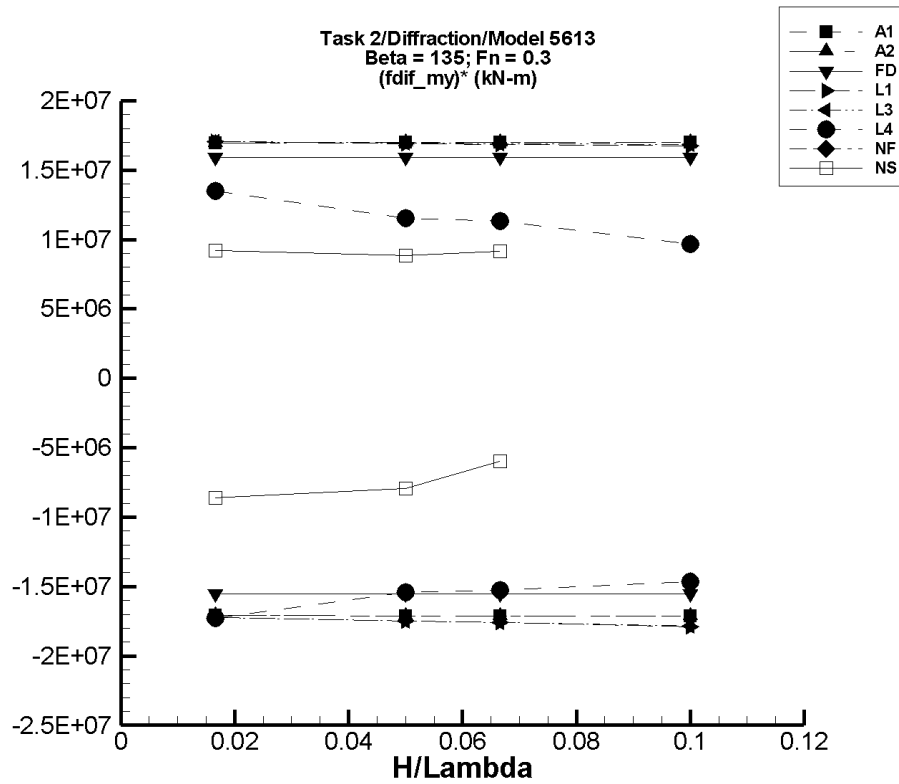


Figure Q-217. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1729. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -188. | -2.93E+05 | 2.89E+05 | -2.85E+05 | 2.82E+05 | -1.71E+07 | 1.69E+07 |
| 1/20 | -565. | -8.80E+05 | 8.68E+05 | -8.56E+05 | 8.49E+05 | -1.71E+07 | 1.70E+07 |
| 1/15 | -754. | -1.17E+06 | 1.16E+06 | -1.14E+06 | 1.13E+06 | -1.71E+07 | 1.70E+07 |
| 1/10 | -1.13E+03 | -1.76E+06 | 1.74E+06 | -1.71E+06 | 1.70E+06 | -1.71E+07 | 1.70E+07 |

Table Q-1730. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -188. | -2.93E+05 | 2.89E+05 | -2.85E+05 | 2.82E+05 | -1.71E+07 | 1.69E+07 |
| 1/20 | -565. | -8.80E+05 | 8.68E+05 | -8.56E+05 | 8.49E+05 | -1.71E+07 | 1.70E+07 |
| 1/15 | -754. | -1.17E+06 | 1.16E+06 | -1.14E+06 | 1.13E+06 | -1.71E+07 | 1.70E+07 |
| 1/10 | -1.13E+03 | -1.76E+06 | 1.74E+06 | -1.71E+06 | 1.70E+06 | -1.71E+07 | 1.70E+07 |

Table Q-1731. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 9.91 | -2.65E+05 | 2.65E+05 | -2.59E+05 | 2.65E+05 | -1.55E+07 | 1.59E+07 |
| 1/20 | 29.8 | -7.95E+05 | 7.94E+05 | -7.76E+05 | 7.95E+05 | -1.55E+07 | 1.59E+07 |
| 1/15 | 39.7 | -1.06E+06 | 1.06E+06 | -1.03E+06 | 1.06E+06 | -1.55E+07 | 1.59E+07 |
| 1/10 | 59.5 | -1.59E+06 | 1.59E+06 | -1.55E+06 | 1.59E+06 | -1.55E+07 | 1.59E+07 |

Table Q-1732. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.39E+04 | -3.04E+05 | 2.73E+05 | -3.01E+05 | 2.70E+05 | -1.72E+07 | 1.70E+07 |
| 1/20 | -3.96E+04 | -9.22E+05 | 8.11E+05 | -9.14E+05 | 8.04E+05 | -1.75E+07 | 1.69E+07 |
| 1/15 | -6.20E+04 | -1.25E+06 | 1.07E+06 | -1.24E+06 | 1.06E+06 | -1.76E+07 | 1.68E+07 |
| 1/10 | -1.26E+05 | -1.93E+06 | 1.56E+06 | -1.92E+06 | 1.55E+06 | -1.79E+07 | 1.67E+07 |

Table Q-1733. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.39E+04 | -3.04E+05 | 2.73E+05 | -3.01E+05 | 2.71E+05 | -1.72E+07 | 1.71E+07 |
| 1/20 | -3.96E+04 | -9.21E+05 | 8.14E+05 | -9.13E+05 | 8.08E+05 | -1.75E+07 | 1.69E+07 |
| 1/15 | -6.20E+04 | -1.25E+06 | 1.07E+06 | -1.23E+06 | 1.06E+06 | -1.76E+07 | 1.69E+07 |
| 1/10 | -1.26E+05 | -1.93E+06 | 1.57E+06 | -1.91E+06 | 1.56E+06 | -1.79E+07 | 1.68E+07 |

Table Q-1734. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.84E+04 | -3.49E+05 | 1.69E+05 | -3.46E+05 | 1.67E+05 | -1.73E+07 | 1.35E+07 |
| 1/20 | -2.07E+05 | -9.83E+05 | 3.88E+05 | -9.77E+05 | 3.69E+05 | -1.54E+07 | 1.15E+07 |
| 1/15 | -2.71E+05 | -1.31E+06 | 5.56E+05 | -1.29E+06 | 4.82E+05 | -1.53E+07 | 1.13E+07 |
| 1/10 | -2.88E+05 | -2.42E+06 | 7.94E+05 | -1.76E+06 | 6.80E+05 | -1.47E+07 | 9.69E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1735. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1736. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.32E+03 | -1.40E+05 | 1.63E+05 | -1.36E+05 | 1.61E+05 | -8.60E+06 | 9.19E+06 |
| 1/20 | -4.94E+04 | -5.08E+05 | 6.76E+05 | -4.47E+05 | 3.93E+05 | -7.94E+06 | 8.84E+06 |
| 1/15 | 4.04E+04 | -3.76E+05 | 1.04E+06 | -3.58E+05 | 6.50E+05 | -5.97E+06 | 9.15E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

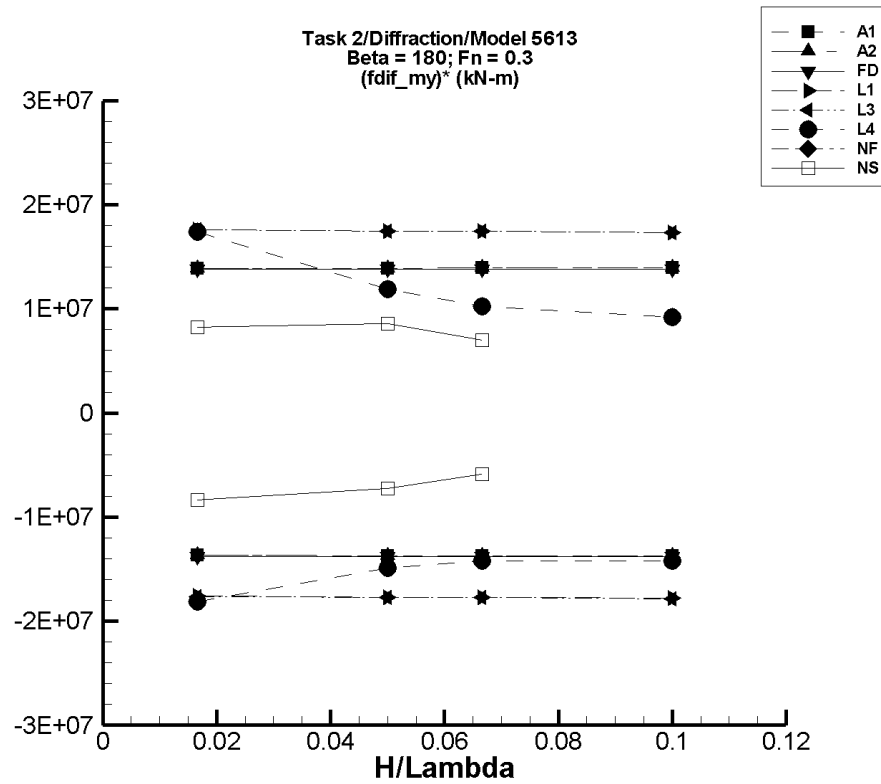


Figure Q-218. Minimum and maximum of filtered $(M_y^{\text{dif}} - \langle M_y^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

Table Q-1737. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.02E+03 | -2.37E+05 | 2.42E+05 | -2.30E+05 | 2.29E+05 | -1.37E+07 | 1.39E+07 |
| 1/20 | -6.06E+03 | -7.12E+05 | 7.27E+05 | -6.91E+05 | 6.89E+05 | -1.37E+07 | 1.39E+07 |
| 1/15 | -8.09E+03 | -9.51E+05 | 9.70E+05 | -9.22E+05 | 9.20E+05 | -1.37E+07 | 1.39E+07 |
| 1/10 | -1.21E+04 | -1.43E+06 | 1.46E+06 | -1.38E+06 | 1.38E+06 | -1.37E+07 | 1.39E+07 |

Table Q-1738. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -2.02E+03 | -2.37E+05 | 2.42E+05 | -2.30E+05 | 2.29E+05 | -1.37E+07 | 1.39E+07 |
| 1/20 | -6.06E+03 | -7.12E+05 | 7.27E+05 | -6.91E+05 | 6.89E+05 | -1.37E+07 | 1.39E+07 |
| 1/15 | -8.09E+03 | -9.51E+05 | 9.70E+05 | -9.22E+05 | 9.20E+05 | -1.37E+07 | 1.39E+07 |
| 1/10 | -1.21E+04 | -1.43E+06 | 1.46E+06 | -1.38E+06 | 1.38E+06 | -1.37E+07 | 1.39E+07 |

Table Q-1739. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -120. | -2.38E+05 | 2.38E+05 | -2.30E+05 | 2.30E+05 | -1.38E+07 | 1.38E+07 |
| 1/20 | -359. | -7.13E+05 | 7.13E+05 | -6.91E+05 | 6.91E+05 | -1.38E+07 | 1.38E+07 |
| 1/15 | -479. | -9.51E+05 | 9.50E+05 | -9.21E+05 | 9.22E+05 | -1.38E+07 | 1.38E+07 |
| 1/10 | -719. | -1.43E+06 | 1.43E+06 | -1.38E+06 | 1.38E+06 | -1.38E+07 | 1.38E+07 |

Table Q-1740. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.25E+04 | -3.09E+05 | 2.83E+05 | -3.06E+05 | 2.80E+05 | -1.76E+07 | 1.76E+07 |
| 1/20 | -2.54E+04 | -9.20E+05 | 8.58E+05 | -9.10E+05 | 8.49E+05 | -1.77E+07 | 1.75E+07 |
| 1/15 | -3.65E+04 | -1.23E+06 | 1.14E+06 | -1.22E+06 | 1.13E+06 | -1.77E+07 | 1.74E+07 |
| 1/10 | -6.80E+04 | -1.87E+06 | 1.68E+06 | -1.85E+06 | 1.67E+06 | -1.78E+07 | 1.74E+07 |

Table Q-1741. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.25E+04 | -3.09E+05 | 2.84E+05 | -3.06E+05 | 2.80E+05 | -1.76E+07 | 1.76E+07 |
| 1/20 | -2.54E+04 | -9.21E+05 | 8.58E+05 | -9.11E+05 | 8.49E+05 | -1.77E+07 | 1.75E+07 |
| 1/15 | -3.64E+04 | -1.23E+06 | 1.14E+06 | -1.22E+06 | 1.13E+06 | -1.77E+07 | 1.74E+07 |
| 1/10 | -6.79E+04 | -1.87E+06 | 1.69E+06 | -1.85E+06 | 1.67E+06 | -1.78E+07 | 1.74E+07 |

Table Q-1742. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -6.22E+04 | -3.84E+05 | 2.46E+05 | -3.64E+05 | 2.27E+05 | -1.81E+07 | 1.74E+07 |
| 1/20 | -2.19E+05 | -9.84E+05 | 5.43E+05 | -9.64E+05 | 3.75E+05 | -1.49E+07 | 1.19E+07 |
| 1/15 | -2.80E+05 | -1.25E+06 | 4.98E+05 | -1.23E+06 | 4.00E+05 | -1.42E+07 | 1.02E+07 |
| 1/10 | -3.64E+05 | -2.54E+06 | 7.21E+05 | -1.78E+06 | 5.59E+05 | -1.42E+07 | 9.22E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1743. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1744. Minimum and Maximum of Variables M_y^{dif} and $(M_y^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_y^{\text{dif}} \rangle$ | Unfiltered M_y^{dif} | | Filtered M_y^{dif} | | Filtered $(M_y^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 2.49E+03 | -1.39E+05 | 1.43E+05 | -1.36E+05 | 1.39E+05 | -8.33E+06 | 8.21E+06 |
| 1/20 | -4.51E+04 | -4.18E+05 | 5.38E+05 | -4.09E+05 | 3.83E+05 | -7.27E+06 | 8.57E+06 |
| 1/15 | 3.22E+04 | -3.73E+05 | 1.17E+06 | -3.58E+05 | 5.00E+05 | -5.86E+06 | 7.02E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

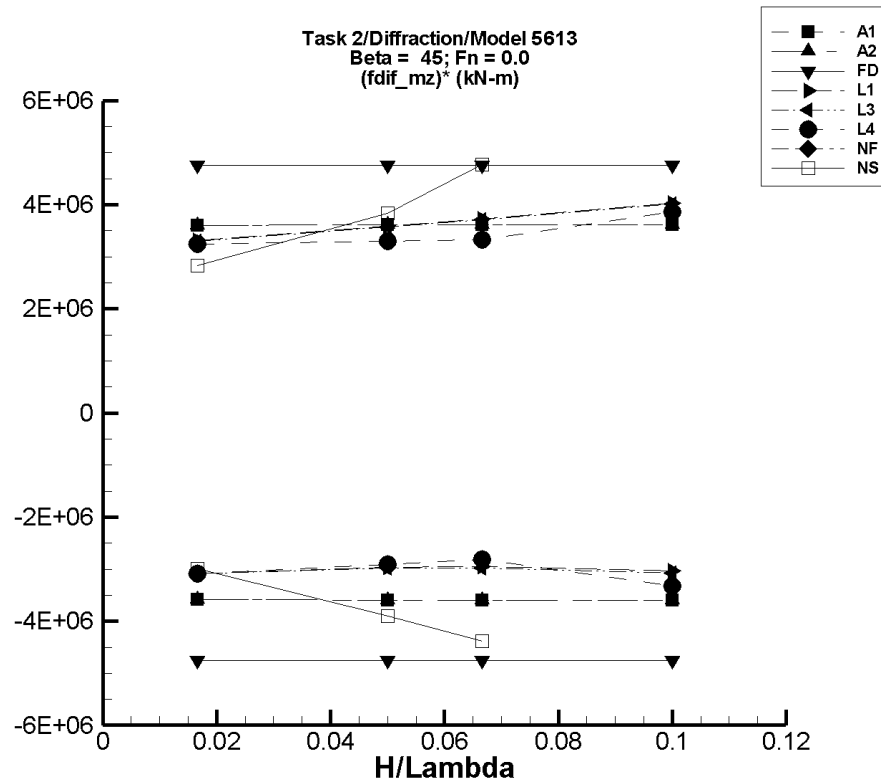


Figure Q-219. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1745. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -117. | -6.05E+04 | 6.06E+04 | -5.98E+04 | 5.99E+04 | -3.58E+06 | 3.60E+06 |
| 1/20 | -353. | -1.82E+05 | 1.82E+05 | -1.80E+05 | 1.80E+05 | -3.59E+06 | 3.61E+06 |
| 1/15 | -472. | -2.43E+05 | 2.43E+05 | -2.40E+05 | 2.41E+05 | -3.60E+06 | 3.62E+06 |
| 1/10 | -708. | -3.64E+05 | 3.65E+05 | -3.60E+05 | 3.61E+05 | -3.60E+06 | 3.62E+06 |

Table Q-1746. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -117. | -6.05E+04 | 6.06E+04 | -5.98E+04 | 5.99E+04 | -3.58E+06 | 3.60E+06 |
| 1/20 | -353. | -1.82E+05 | 1.82E+05 | -1.80E+05 | 1.80E+05 | -3.59E+06 | 3.61E+06 |
| 1/15 | -472. | -2.43E+05 | 2.43E+05 | -2.40E+05 | 2.41E+05 | -3.60E+06 | 3.62E+06 |
| 1/10 | -708. | -3.64E+05 | 3.65E+05 | -3.60E+05 | 3.61E+05 | -3.60E+06 | 3.62E+06 |

Table Q-1747. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 45^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|--------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 33.0 | -8.00E+04 | 8.00E+04 | -7.92E+04 | 7.92E+04 | -4.75E+06 | 4.75E+06 |
| 1/20 | 98.9 | -2.40E+05 | 2.40E+05 | -2.38E+05 | 2.38E+05 | -4.75E+06 | 4.75E+06 |
| 1/15 | 132. | -3.20E+05 | 3.20E+05 | -3.17E+05 | 3.17E+05 | -4.75E+06 | 4.75E+06 |
| 1/10 | 198. | -4.80E+05 | 4.80E+05 | -4.75E+05 | 4.75E+05 | -4.75E+06 | 4.75E+06 |

Table Q-1748. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -2.94E+03 | -5.45E+04 | 5.24E+04 | -5.44E+04 | 5.22E+04 | -3.08E+06 | 3.31E+06 |
| 1/20 | -2.67E+04 | -1.75E+05 | 1.53E+05 | -1.75E+05 | 1.52E+05 | -2.96E+06 | 3.58E+06 |
| 1/15 | -4.75E+04 | -2.45E+05 | 2.03E+05 | -2.44E+05 | 2.01E+05 | -2.95E+06 | 3.73E+06 |
| 1/10 | -1.07E+05 | -4.12E+05 | 2.99E+05 | -4.11E+05 | 2.96E+05 | -3.04E+06 | 4.03E+06 |

Table Q-1749. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -2.94E+03 | -5.46E+04 | 5.23E+04 | -5.44E+04 | 5.21E+04 | -3.09E+06 | 3.30E+06 |
| 1/20 | -2.67E+04 | -1.76E+05 | 1.53E+05 | -1.76E+05 | 1.52E+05 | -2.98E+06 | 3.57E+06 |
| 1/15 | -4.75E+04 | -2.47E+05 | 2.02E+05 | -2.46E+05 | 2.00E+05 | -2.98E+06 | 3.72E+06 |
| 1/10 | -1.07E+05 | -4.16E+05 | 2.97E+05 | -4.14E+05 | 2.95E+05 | -3.07E+06 | 4.02E+06 |

Table Q–1750. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -1.50E+03 | -5.51E+04 | 5.61E+04 | -5.29E+04 | 5.27E+04 | -3.08E+06 | 3.25E+06 |
| 1/20 | -1.26E+04 | -1.91E+05 | 1.68E+05 | -1.58E+05 | 1.53E+05 | -2.91E+06 | 3.31E+06 |
| 1/15 | -1.59E+04 | -2.75E+05 | 2.49E+05 | -2.03E+05 | 2.06E+05 | -2.81E+06 | 3.33E+06 |
| 1/10 | -5.58E+04 | -4.16E+05 | 4.23E+05 | -3.88E+05 | 3.31E+05 | -3.32E+06 | 3.87E+06 |

Table Q–1751. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1752. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -739. | -5.12E+04 | 4.70E+04 | -5.06E+04 | 4.64E+04 | -2.99E+06 | 2.83E+06 |
| 1/20 | -4.52E+03 | -2.08E+05 | 2.10E+05 | -2.00E+05 | 1.87E+05 | -3.90E+06 | 3.83E+06 |
| 1/15 | -3.94E+03 | -3.31E+05 | 3.42E+05 | -2.96E+05 | 3.14E+05 | -4.38E+06 | 4.77E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

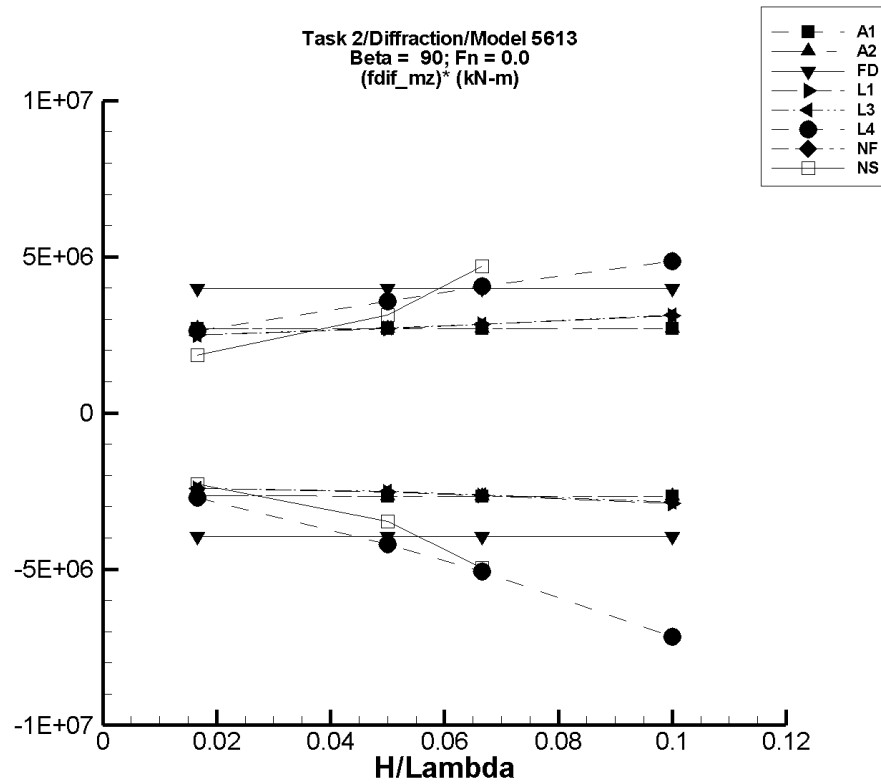


Figure Q-220. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1753. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -44.3 | -4.50E+04 | 4.50E+04 | -4.43E+04 | 4.49E+04 | -2.65E+06 | 2.70E+06 |
| 1/20 | -133. | -1.35E+05 | 1.35E+05 | -1.33E+05 | 1.35E+05 | -2.66E+06 | 2.70E+06 |
| 1/15 | -178. | -1.81E+05 | 1.81E+05 | -1.78E+05 | 1.80E+05 | -2.66E+06 | 2.71E+06 |
| 1/10 | -267. | -2.71E+05 | 2.71E+05 | -2.67E+05 | 2.70E+05 | -2.66E+06 | 2.71E+06 |

Table Q-1754. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -44.3 | -4.50E+04 | 4.50E+04 | -4.43E+04 | 4.49E+04 | -2.65E+06 | 2.70E+06 |
| 1/20 | -133. | -1.35E+05 | 1.35E+05 | -1.33E+05 | 1.35E+05 | -2.66E+06 | 2.70E+06 |
| 1/15 | -178. | -1.81E+05 | 1.81E+05 | -1.78E+05 | 1.80E+05 | -2.66E+06 | 2.71E+06 |
| 1/10 | -267. | -2.71E+05 | 2.71E+05 | -2.67E+05 | 2.70E+05 | -2.66E+06 | 2.71E+06 |

Table Q-1755. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -19.3 | -6.66E+04 | 6.66E+04 | -6.59E+04 | 6.64E+04 | -3.96E+06 | 3.99E+06 |
| 1/20 | -58.0 | -2.00E+05 | 2.00E+05 | -1.98E+05 | 1.99E+05 | -3.96E+06 | 3.99E+06 |
| 1/15 | -77.3 | -2.67E+05 | 2.67E+05 | -2.64E+05 | 2.66E+05 | -3.96E+06 | 3.99E+06 |
| 1/10 | -116. | -4.00E+05 | 4.00E+05 | -3.96E+05 | 3.98E+05 | -3.96E+06 | 3.99E+06 |

Table Q-1756. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -1.45E+03 | -4.20E+04 | 4.02E+04 | -4.18E+04 | 4.01E+04 | -2.42E+06 | 2.49E+06 |
| 1/20 | -1.29E+04 | -1.40E+05 | 1.23E+05 | -1.40E+05 | 1.22E+05 | -2.54E+06 | 2.70E+06 |
| 1/15 | -2.30E+04 | -2.00E+05 | 1.67E+05 | -1.99E+05 | 1.66E+05 | -2.64E+06 | 2.83E+06 |
| 1/10 | -5.17E+04 | -3.43E+05 | 2.62E+05 | -3.41E+05 | 2.60E+05 | -2.89E+06 | 3.12E+06 |

Table Q-1757. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -1.45E+03 | -4.19E+04 | 4.03E+04 | -4.17E+04 | 4.02E+04 | -2.42E+06 | 2.50E+06 |
| 1/20 | -1.29E+04 | -1.39E+05 | 1.23E+05 | -1.39E+05 | 1.23E+05 | -2.52E+06 | 2.71E+06 |
| 1/15 | -2.30E+04 | -1.98E+05 | 1.68E+05 | -1.97E+05 | 1.67E+05 | -2.62E+06 | 2.84E+06 |
| 1/10 | -5.17E+04 | -3.40E+05 | 2.64E+05 | -3.38E+05 | 2.62E+05 | -2.86E+06 | 3.14E+06 |

Table Q–1758. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -2.69E+03 | -5.26E+04 | 4.27E+04 | -4.80E+04 | 4.11E+04 | -2.72E+06 | 2.62E+06 |
| 1/20 | -1.00E+04 | -2.66E+05 | 2.07E+05 | -2.20E+05 | 1.68E+05 | -4.20E+06 | 3.57E+06 |
| 1/15 | -9.09E+03 | -3.73E+05 | 3.08E+05 | -3.48E+05 | 2.62E+05 | -5.08E+06 | 4.06E+06 |
| 1/10 | -8.63E+03 | -7.71E+05 | 6.41E+05 | -7.26E+05 | 4.78E+05 | -7.17E+06 | 4.87E+06 |

Table Q–1759. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1760. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.03E+03 | -4.17E+04 | 3.12E+04 | -3.91E+04 | 2.98E+04 | -2.28E+06 | 1.85E+06 |
| 1/20 | -5.52E+03 | -2.00E+05 | 2.04E+05 | -1.80E+05 | 1.51E+05 | -3.48E+06 | 3.13E+06 |
| 1/15 | -1.31E+03 | -3.46E+05 | 3.42E+05 | -3.32E+05 | 3.11E+05 | -4.97E+06 | 4.69E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

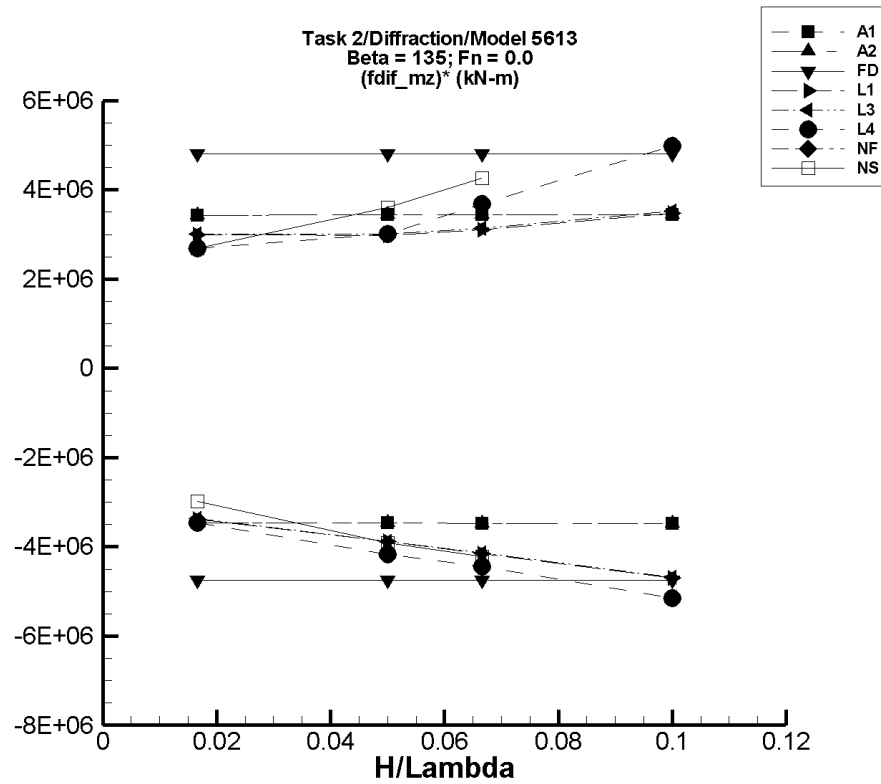


Figure Q-221. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1761. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 141. | -5.82E+04 | 5.80E+04 | -5.75E+04 | 5.73E+04 | -3.46E+06 | 3.43E+06 |
| 1/20 | 425. | -1.75E+05 | 1.74E+05 | -1.73E+05 | 1.72E+05 | -3.47E+06 | 3.44E+06 |
| 1/15 | 567. | -2.34E+05 | 2.33E+05 | -2.31E+05 | 2.30E+05 | -3.47E+06 | 3.45E+06 |
| 1/10 | 850. | -3.51E+05 | 3.49E+05 | -3.46E+05 | 3.45E+05 | -3.47E+06 | 3.45E+06 |

Table Q-1762. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 141. | -5.82E+04 | 5.80E+04 | -5.75E+04 | 5.73E+04 | -3.46E+06 | 3.43E+06 |
| 1/20 | 425. | -1.75E+05 | 1.74E+05 | -1.73E+05 | 1.72E+05 | -3.47E+06 | 3.44E+06 |
| 1/15 | 567. | -2.34E+05 | 2.33E+05 | -2.31E+05 | 2.30E+05 | -3.47E+06 | 3.45E+06 |
| 1/10 | 850. | -3.51E+05 | 3.49E+05 | -3.46E+05 | 3.45E+05 | -3.47E+06 | 3.45E+06 |

Table Q-1763. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -24.3 | -8.00E+04 | 8.00E+04 | -7.92E+04 | 8.00E+04 | -4.75E+06 | 4.80E+06 |
| 1/20 | -72.8 | -2.40E+05 | 2.40E+05 | -2.38E+05 | 2.40E+05 | -4.75E+06 | 4.80E+06 |
| 1/15 | -97.0 | -3.20E+05 | 3.20E+05 | -3.17E+05 | 3.20E+05 | -4.75E+06 | 4.80E+06 |
| 1/10 | -146. | -4.80E+05 | 4.80E+05 | -4.75E+05 | 4.80E+05 | -4.75E+06 | 4.80E+06 |

Table Q-1764. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.67E+03 | -5.49E+04 | 5.18E+04 | -5.47E+04 | 5.16E+04 | -3.38E+06 | 3.00E+06 |
| 1/20 | 1.51E+04 | -1.80E+05 | 1.65E+05 | -1.79E+05 | 1.64E+05 | -3.89E+06 | 2.98E+06 |
| 1/15 | 2.69E+04 | -2.52E+05 | 2.35E+05 | -2.50E+05 | 2.34E+05 | -4.15E+06 | 3.10E+06 |
| 1/10 | 6.04E+04 | -4.14E+05 | 4.11E+05 | -4.10E+05 | 4.08E+05 | -4.70E+06 | 3.48E+06 |

Table Q-1765. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.67E+03 | -5.48E+04 | 5.20E+04 | -5.45E+04 | 5.18E+04 | -3.37E+06 | 3.01E+06 |
| 1/20 | 1.51E+04 | -1.80E+05 | 1.66E+05 | -1.79E+05 | 1.66E+05 | -3.87E+06 | 3.01E+06 |
| 1/15 | 2.68E+04 | -2.51E+05 | 2.37E+05 | -2.49E+05 | 2.36E+05 | -4.14E+06 | 3.14E+06 |
| 1/10 | 6.04E+04 | -4.12E+05 | 4.15E+05 | -4.08E+05 | 4.13E+05 | -4.69E+06 | 3.52E+06 |

Table Q–1766. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 970. | -6.20E+04 | 4.82E+04 | -5.66E+04 | 4.57E+04 | -3.46E+06 | 2.68E+06 |
| 1/20 | 6.30E+03 | -2.37E+05 | 1.75E+05 | -2.03E+05 | 1.57E+05 | -4.18E+06 | 3.01E+06 |
| 1/15 | 1.19E+04 | -3.34E+05 | 4.82E+05 | -2.85E+05 | 2.57E+05 | -4.45E+06 | 3.68E+06 |
| 1/10 | 5.44E+04 | -5.09E+05 | 5.60E+05 | -4.61E+05 | 5.53E+05 | -5.16E+06 | 4.98E+06 |

Table Q–1767. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1768. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -605. | -5.09E+04 | 4.50E+04 | -5.04E+04 | 4.41E+04 | -2.99E+06 | 2.69E+06 |
| 1/20 | -2.96E+03 | -2.07E+05 | 2.04E+05 | -1.99E+05 | 1.78E+05 | -3.91E+06 | 3.61E+06 |
| 1/15 | -548. | -2.89E+05 | 3.18E+05 | -2.81E+05 | 2.84E+05 | -4.21E+06 | 4.27E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

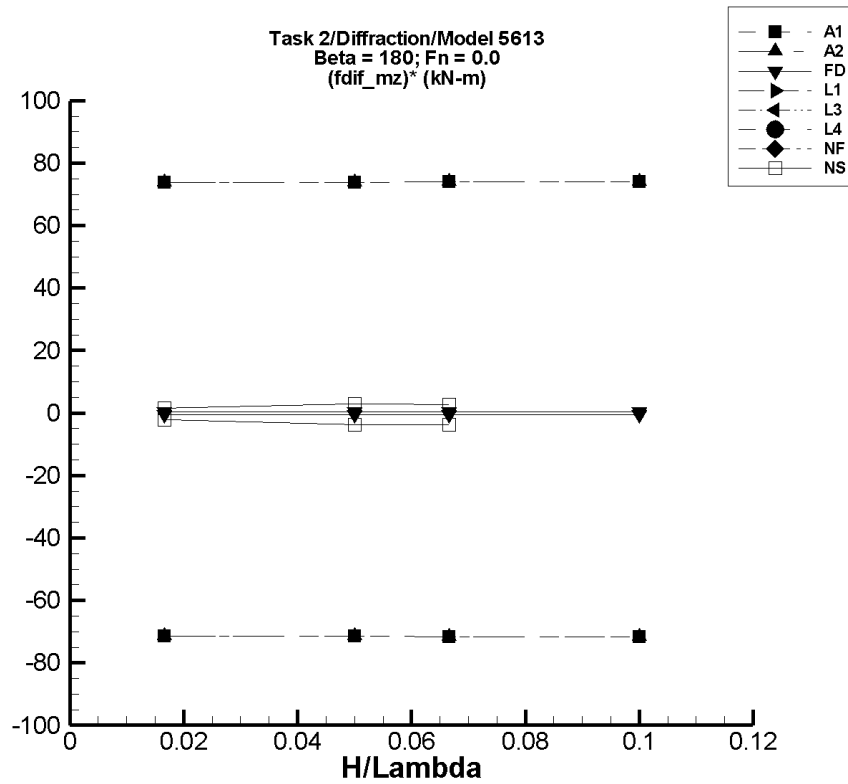


Figure Q-222. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.0$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1769. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.12E-03 | -1.20 | 1.24 | -1.19 | 1.23 | -71.3 | 73.7 |
| 1/20 | 3.38E-03 | -3.60 | 3.73 | -3.57 | 3.70 | -71.5 | 73.9 |
| 1/15 | 4.51E-03 | -4.81 | 4.97 | -4.77 | 4.94 | -71.6 | 74.0 |
| 1/10 | 6.77E-03 | -7.21 | 7.46 | -7.15 | 7.41 | -71.6 | 74.0 |

Table Q-1770. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.12E-03 | -1.20 | 1.24 | -1.19 | 1.23 | -71.3 | 73.7 |
| 1/20 | 3.38E-03 | -3.60 | 3.73 | -3.57 | 3.70 | -71.5 | 73.9 |
| 1/15 | 4.51E-03 | -4.81 | 4.97 | -4.77 | 4.94 | -71.6 | 74.0 |
| 1/10 | 6.77E-03 | -7.21 | 7.46 | -7.15 | 7.41 | -71.6 | 74.0 |

Table Q-1771. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.08E-06 | -8.28E-03 | 8.28E-03 | -8.21E-03 | 8.20E-03 | -0.492 | 0.492 |
| 1/20 | 3.23E-06 | -2.49E-02 | 2.49E-02 | -2.46E-02 | 2.46E-02 | -0.492 | 0.492 |
| 1/15 | 4.31E-06 | -3.31E-02 | 3.31E-02 | -3.28E-02 | 3.28E-02 | -0.492 | 0.492 |
| 1/10 | 6.46E-06 | -4.97E-02 | 4.97E-02 | -4.92E-02 | 4.92E-02 | -0.492 | 0.492 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1772. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1773. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1774. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1775. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1776. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.0$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 3.16E-03 | -9.67E-02 | 5.95E-02 | -3.28E-02 | 2.77E-02 | -2.16 | 1.47 |
| 1/20 | -2.23E-03 | -0.349 | 0.519 | -0.185 | 0.146 | -3.66 | 2.96 |
| 1/15 | 2.12E-03 | -3.04 | 2.89 | -0.243 | 0.187 | -3.67 | 2.77 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

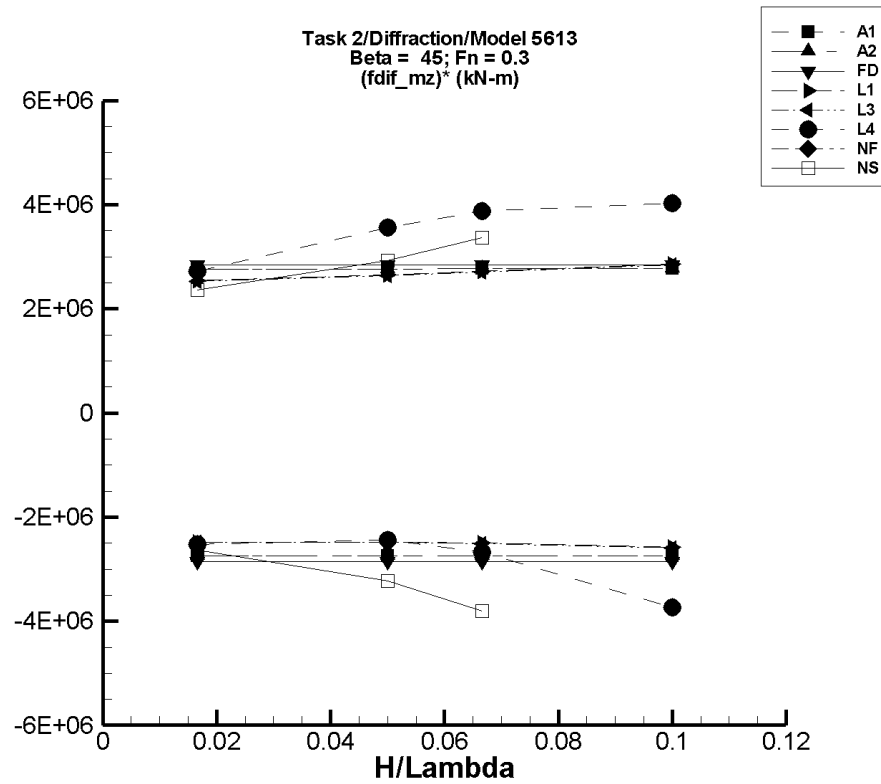


Figure Q-223. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 45^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1777. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|--------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 7.38 | -4.80E+04 | 4.71E+04 | -4.57E+04 | 4.60E+04 | -2.74E+06 | 2.76E+06 |
| 1/20 | 22.2 | -1.44E+05 | 1.42E+05 | -1.37E+05 | 1.38E+05 | -2.75E+06 | 2.77E+06 |
| 1/15 | 29.6 | -1.93E+05 | 1.89E+05 | -1.83E+05 | 1.85E+05 | -2.75E+06 | 2.77E+06 |
| 1/10 | 44.4 | -2.89E+05 | 2.84E+05 | -2.75E+05 | 2.77E+05 | -2.75E+06 | 2.77E+06 |

Table Q-1778. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|--------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 7.38 | -4.80E+04 | 4.71E+04 | -4.57E+04 | 4.60E+04 | -2.74E+06 | 2.76E+06 |
| 1/20 | 22.2 | -1.44E+05 | 1.42E+05 | -1.37E+05 | 1.38E+05 | -2.75E+06 | 2.77E+06 |
| 1/15 | 29.6 | -1.93E+05 | 1.89E+05 | -1.83E+05 | 1.85E+05 | -2.75E+06 | 2.77E+06 |
| 1/10 | 44.4 | -2.89E+05 | 2.84E+05 | -2.75E+05 | 2.77E+05 | -2.75E+06 | 2.77E+06 |

Table Q-1779. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|--------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 10.4 | -4.76E+04 | 4.76E+04 | -4.75E+04 | 4.75E+04 | -2.85E+06 | 2.85E+06 |
| 1/20 | 31.1 | -1.43E+05 | 1.43E+05 | -1.42E+05 | 1.42E+05 | -2.85E+06 | 2.85E+06 |
| 1/15 | 41.5 | -1.90E+05 | 1.90E+05 | -1.90E+05 | 1.90E+05 | -2.85E+06 | 2.85E+06 |
| 1/10 | 62.2 | -2.86E+05 | 2.86E+05 | -2.85E+05 | 2.85E+05 | -2.85E+06 | 2.85E+06 |

Table Q-1780. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -31.7 | -4.14E+04 | 4.24E+04 | -4.14E+04 | 4.23E+04 | -2.48E+06 | 2.54E+06 |
| 1/20 | -284. | -1.24E+05 | 1.32E+05 | -1.24E+05 | 1.32E+05 | -2.48E+06 | 2.65E+06 |
| 1/15 | -507. | -1.67E+05 | 1.81E+05 | -1.67E+05 | 1.80E+05 | -2.50E+06 | 2.71E+06 |
| 1/10 | -1.14E+03 | -2.59E+05 | 2.85E+05 | -2.59E+05 | 2.85E+05 | -2.58E+06 | 2.86E+06 |

Table Q-1781. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|-------------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | -30.8 | -4.14E+04 | 4.23E+04 | -4.13E+04 | 4.22E+04 | -2.48E+06 | 2.54E+06 |
| 1/20 | -281. | -1.24E+05 | 1.32E+05 | -1.24E+05 | 1.32E+05 | -2.48E+06 | 2.64E+06 |
| 1/15 | -503. | -1.68E+05 | 1.80E+05 | -1.67E+05 | 1.80E+05 | -2.50E+06 | 2.70E+06 |
| 1/10 | -1.14E+03 | -2.60E+05 | 2.84E+05 | -2.60E+05 | 2.84E+05 | -2.59E+06 | 2.85E+06 |

Table Q–1782. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.48E+03 | -3.84E+04 | 6.64E+04 | -3.57E+04 | 5.17E+04 | -2.53E+06 | 2.72E+06 |
| 1/20 | 5.59E+04 | -6.99E+04 | 3.09E+05 | -6.64E+04 | 2.34E+05 | -2.45E+06 | 3.55E+06 |
| 1/15 | 9.34E+04 | -1.71E+05 | 4.53E+05 | -8.47E+04 | 3.52E+05 | -2.67E+06 | 3.87E+06 |
| 1/10 | 1.70E+05 | -6.51E+05 | 6.56E+05 | -2.04E+05 | 5.73E+05 | -3.74E+06 | 4.03E+06 |

Table Q–1783. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 45^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1784. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 45^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|---------------------------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered $(M_z^{\text{dif}})^*$ Min. (kN-m) | Max. (kN-m) |
| 1/60 | -5.17E+03 | -4.97E+04 | 3.44E+04 | -4.91E+04 | 3.41E+04 | -2.64E+06 | 2.36E+06 |
| 1/20 | -5.27E+04 | -2.24E+05 | 9.33E+04 | -2.14E+05 | 9.36E+04 | -3.23E+06 | 2.93E+06 |
| 1/15 | -9.38E+04 | -3.64E+05 | 1.47E+05 | -3.48E+05 | 1.31E+05 | -3.81E+06 | 3.37E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

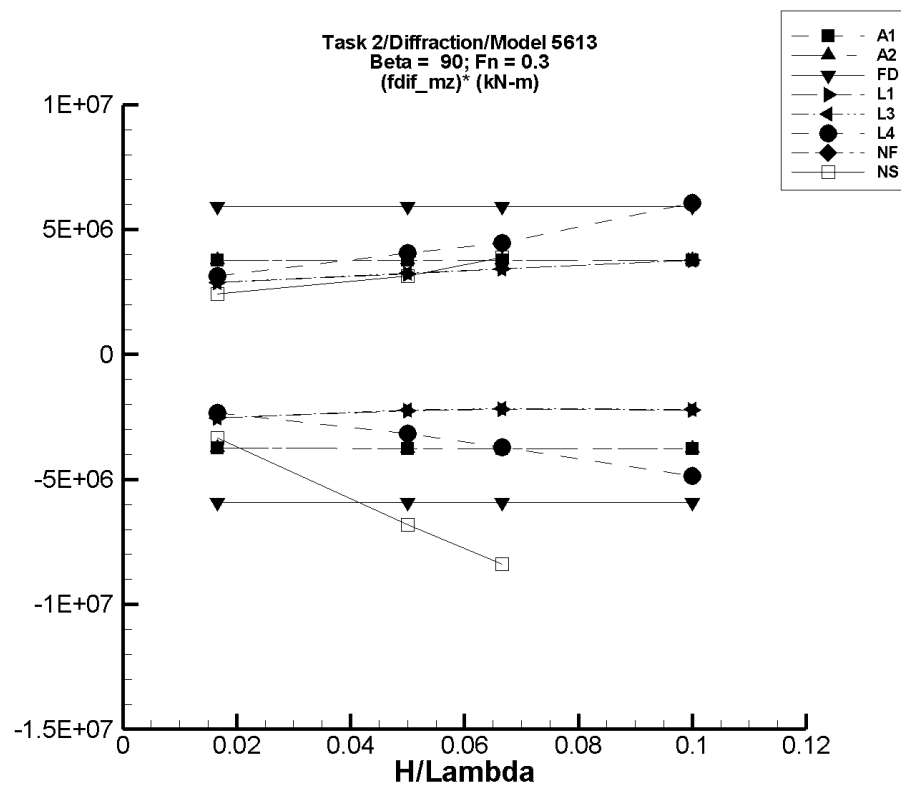


Figure Q-224. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 90^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1785. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -61.3 | -6.32E+04 | 6.33E+04 | -6.26E+04 | 6.27E+04 | -3.75E+06 | 3.76E+06 |
| 1/20 | -184. | -1.90E+05 | 1.90E+05 | -1.88E+05 | 1.89E+05 | -3.76E+06 | 3.77E+06 |
| 1/15 | -246. | -2.54E+05 | 2.54E+05 | -2.51E+05 | 2.52E+05 | -3.77E+06 | 3.78E+06 |
| 1/10 | -369. | -3.81E+05 | 3.81E+05 | -3.77E+05 | 3.78E+05 | -3.77E+06 | 3.78E+06 |

Table Q-1786. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -61.3 | -6.32E+04 | 6.33E+04 | -6.26E+04 | 6.27E+04 | -3.75E+06 | 3.76E+06 |
| 1/20 | -184. | -1.90E+05 | 1.90E+05 | -1.88E+05 | 1.89E+05 | -3.76E+06 | 3.77E+06 |
| 1/15 | -246. | -2.54E+05 | 2.54E+05 | -2.51E+05 | 2.52E+05 | -3.77E+06 | 3.78E+06 |
| 1/10 | -369. | -3.81E+05 | 3.81E+05 | -3.77E+05 | 3.78E+05 | -3.77E+06 | 3.78E+06 |

Table Q-1787. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case
(FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m,
 $\beta = 90^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -0.922 | -9.99E+04 | 9.99E+04 | -9.89E+04 | 9.89E+04 | -5.93E+06 | 5.93E+06 |
| 1/20 | -2.75 | -3.00E+05 | 3.00E+05 | -2.97E+05 | 2.97E+05 | -5.93E+06 | 5.93E+06 |
| 1/15 | -3.69 | -4.00E+05 | 4.00E+05 | -3.95E+05 | 3.95E+05 | -5.93E+06 | 5.93E+06 |
| 1/10 | -5.51 | -5.99E+05 | 5.99E+05 | -5.93E+05 | 5.93E+05 | -5.93E+06 | 5.93E+06 |

Table Q-1788. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.61E+03 | -4.09E+04 | 5.00E+04 | -4.08E+04 | 4.98E+04 | -2.54E+06 | 2.89E+06 |
| 1/20 | 1.46E+04 | -9.84E+04 | 1.78E+05 | -9.81E+04 | 1.77E+05 | -2.26E+06 | 3.24E+06 |
| 1/15 | 2.61E+04 | -1.20E+05 | 2.55E+05 | -1.20E+05 | 2.54E+05 | -2.19E+06 | 3.42E+06 |
| 1/10 | 5.87E+04 | -1.66E+05 | 4.39E+05 | -1.65E+05 | 4.36E+05 | -2.23E+06 | 3.77E+06 |

Table Q-1789. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|-------------------------------------------------------------|-------------------------------------------------|-----------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|-----------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.61E+03 | -4.08E+04 | 5.00E+04 | -4.07E+04 | 4.98E+04 | -2.54E+06 | 2.89E+06 |
| 1/20 | 1.47E+04 | -9.74E+04 | 1.78E+05 | -9.72E+04 | 1.77E+05 | -2.24E+06 | 3.24E+06 |
| 1/15 | 2.61E+04 | -1.18E+05 | 2.55E+05 | -1.18E+05 | 2.54E+05 | -2.16E+06 | 3.42E+06 |
| 1/10 | 5.87E+04 | -1.62E+05 | 4.39E+05 | -1.60E+05 | 4.36E+05 | -2.19E+06 | 3.78E+06 |

Table Q–1790. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 8.72E+03 | -3.59E+04 | 6.19E+04 | -3.02E+04 | 6.09E+04 | -2.34E+06 | 3.13E+06 |
| 1/20 | 7.19E+04 | -1.15E+05 | 2.82E+05 | -8.65E+04 | 2.74E+05 | -3.17E+06 | 4.04E+06 |
| 1/15 | 1.17E+05 | -1.64E+05 | 4.27E+05 | -1.30E+05 | 4.15E+05 | -3.70E+06 | 4.47E+06 |
| 1/10 | 2.15E+05 | -2.93E+05 | 1.17E+06 | -2.70E+05 | 8.21E+05 | -4.85E+06 | 6.06E+06 |

Table Q–1791. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 90^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q-1792. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 90^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.23E+04 | -7.20E+04 | 2.85E+04 | -6.82E+04 | 2.79E+04 | -3.35E+06 | 2.41E+06 |
| 1/20 | -1.04E+05 | -5.12E+05 | 9.27E+04 | -4.46E+05 | 5.27E+04 | -6.82E+06 | 3.14E+06 |
| 1/15 | -1.56E+05 | -7.42E+05 | 1.54E+05 | -7.16E+05 | 1.04E+05 | -8.39E+06 | 3.90E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

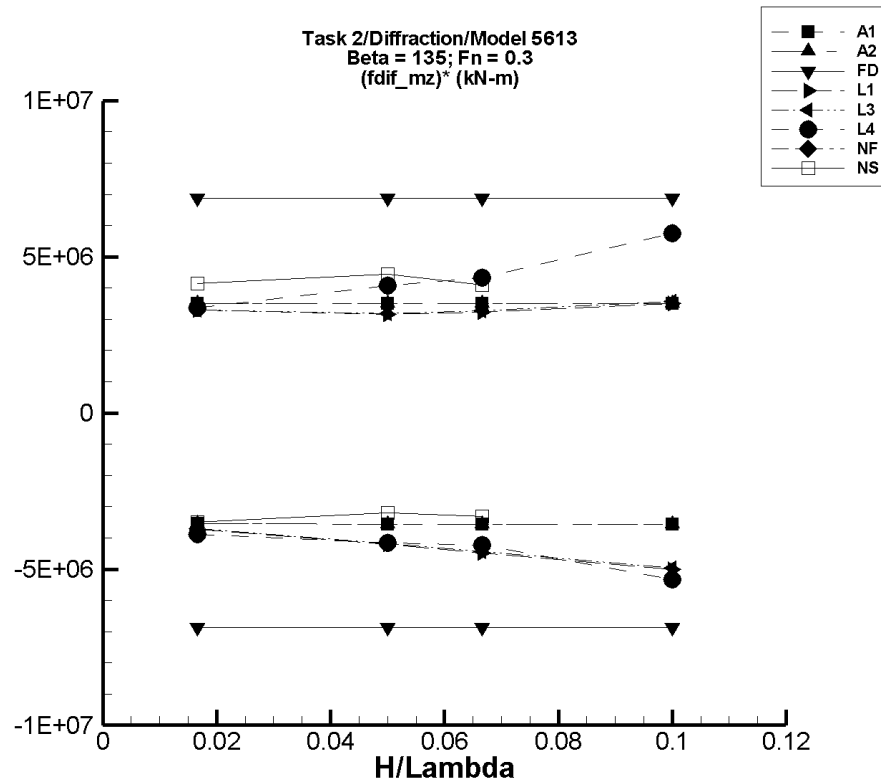


Figure Q-225. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 135^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1793. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 57.6 | -6.06E+04 | 5.98E+04 | -5.91E+04 | 5.83E+04 | -3.55E+06 | 3.49E+06 |
| 1/20 | 173. | -1.82E+05 | 1.80E+05 | -1.78E+05 | 1.75E+05 | -3.56E+06 | 3.50E+06 |
| 1/15 | 231. | -2.43E+05 | 2.40E+05 | -2.37E+05 | 2.34E+05 | -3.56E+06 | 3.51E+06 |
| 1/10 | 347. | -3.65E+05 | 3.60E+05 | -3.56E+05 | 3.51E+05 | -3.56E+06 | 3.51E+06 |

Table Q–1794. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|---------------|------------------------------------------------------|------------------------------|--------------------------------------|----------------------------|--------------------------------------|----------------------------|------------------------------------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ Mean (kN-m) | Unfiltered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | M_z^{dif} Max. (kN-m) | Filtered Min. (kN-m) | $(M_z^{\text{dif}})^*$ Max. (kN-m) |
| 1/60 | 57.6 | -6.06E+04 | 5.98E+04 | -5.91E+04 | 5.83E+04 | -3.55E+06 | 3.49E+06 |
| 1/20 | 173. | -1.82E+05 | 1.80E+05 | -1.78E+05 | 1.75E+05 | -3.56E+06 | 3.50E+06 |
| 1/15 | 231. | -2.43E+05 | 2.40E+05 | -2.37E+05 | 2.34E+05 | -3.56E+06 | 3.51E+06 |
| 1/10 | 347. | -3.65E+05 | 3.60E+05 | -3.56E+05 | 3.51E+05 | -3.56E+06 | 3.51E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1795. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 6.13E-02 | -1.17E+05 | 1.17E+05 | -1.15E+05 | 1.15E+05 | -6.87E+06 | 6.88E+06 |
| 1/20 | 0.165 | -3.52E+05 | 3.52E+05 | -3.44E+05 | 3.44E+05 | -6.87E+06 | 6.88E+06 |
| 1/15 | 0.203 | -4.69E+05 | 4.69E+05 | -4.58E+05 | 4.58E+05 | -6.87E+06 | 6.88E+06 |
| 1/10 | 0.340 | -7.04E+05 | 7.04E+05 | -6.87E+05 | 6.88E+05 | -6.87E+06 | 6.88E+06 |

Table Q-1796. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.65E+03 | -6.09E+04 | 5.70E+04 | -6.03E+04 | 5.67E+04 | -3.72E+06 | 3.30E+06 |
| 1/20 | 1.48E+04 | -1.99E+05 | 1.74E+05 | -1.96E+05 | 1.73E+05 | -4.21E+06 | 3.16E+06 |
| 1/15 | 2.64E+04 | -2.76E+05 | 2.44E+05 | -2.72E+05 | 2.41E+05 | -4.47E+06 | 3.22E+06 |
| 1/10 | 5.93E+04 | -4.49E+05 | 4.17E+05 | -4.41E+05 | 4.11E+05 | -5.00E+06 | 3.51E+06 |

Table Q-1797. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.65E+03 | -6.04E+04 | 5.70E+04 | -5.99E+04 | 5.66E+04 | -3.69E+06 | 3.29E+06 |
| 1/20 | 1.48E+04 | -1.97E+05 | 1.76E+05 | -1.94E+05 | 1.74E+05 | -4.18E+06 | 3.19E+06 |
| 1/15 | 2.64E+04 | -2.74E+05 | 2.47E+05 | -2.69E+05 | 2.44E+05 | -4.43E+06 | 3.27E+06 |
| 1/10 | 5.93E+04 | -4.45E+05 | 4.23E+05 | -4.36E+05 | 4.17E+05 | -4.96E+06 | 3.57E+06 |

Table Q-1798. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 7.61E+03 | -6.60E+04 | 7.25E+04 | -5.70E+04 | 6.37E+04 | -3.87E+06 | 3.37E+06 |
| 1/20 | 6.16E+04 | -1.64E+05 | 4.02E+05 | -1.47E+05 | 2.65E+05 | -4.17E+06 | 4.07E+06 |
| 1/15 | 9.94E+04 | -2.09E+05 | 7.84E+05 | -1.83E+05 | 3.88E+05 | -4.23E+06 | 4.33E+06 |
| 1/10 | 1.98E+05 | -4.57E+05 | 7.93E+05 | -3.34E+05 | 7.72E+05 | -5.32E+06 | 5.74E+06 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1799. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1800. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to $L = 154$ m, $\beta = 135^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -9.83E+03 | -6.89E+04 | 6.09E+04 | -6.80E+04 | 5.91E+04 | -3.49E+06 | 4.14E+06 |
| 1/20 | -7.86E+04 | -2.63E+05 | 1.75E+05 | -2.39E+05 | 1.44E+05 | -3.20E+06 | 4.45E+06 |
| 1/15 | -1.21E+05 | -4.13E+05 | 1.60E+05 | -3.43E+05 | 1.52E+05 | -3.32E+06 | 4.10E+06 |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

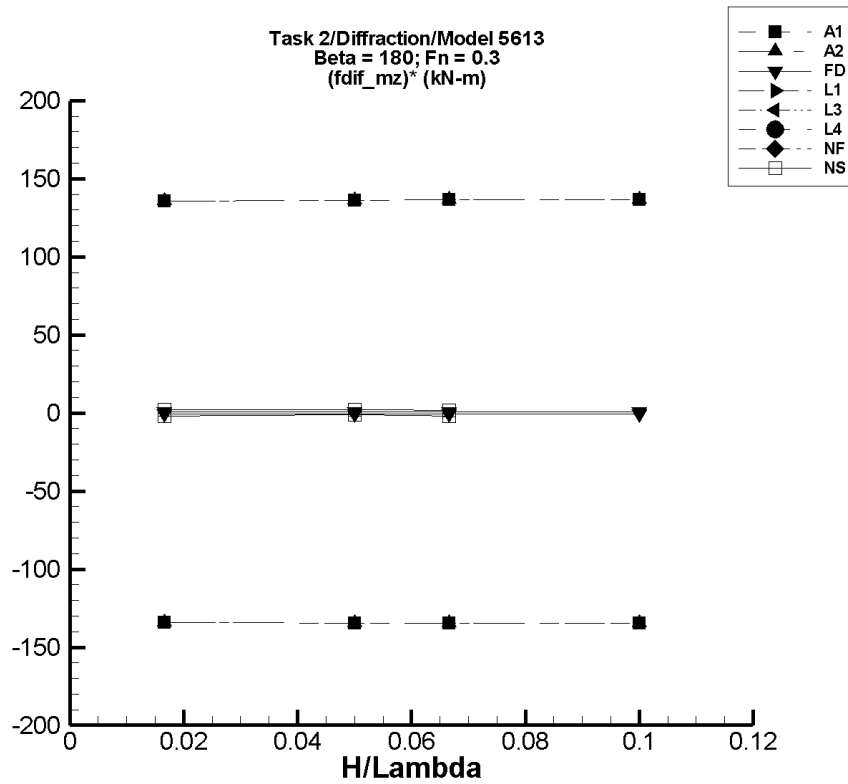


Figure Q-226. Minimum and maximum of filtered $(M_z^{\text{dif}} - \langle M_z^{\text{dif}} \rangle) / (H/\lambda)$ vs. (H/λ) for $\beta = 180^\circ$, $F_n = 0.3$ in the case of task 2, diffraction, and Model 5613 scaled to $L = 154$ m.

TASK 2/DIFFRACTION/MODEL 5613

Table Q-1801. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-1 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.14E-03 | -2.31 | 2.61 | -2.24 | 2.26 | -134. | 136. |
| 1/20 | -3.42E-03 | -6.94 | 7.86 | -6.73 | 6.81 | -135. | 136. |
| 1/15 | -4.57E-03 | -9.27 | 10.5 | -8.99 | 9.09 | -135. | 136. |
| 1/10 | -6.85E-03 | -13.9 | 15.7 | -13.5 | 13.6 | -135. | 136. |

Table Q-1802. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (AEGIR-2, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| AEGIR-2 | | | | | | | |
|----------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -1.14E-03 | -2.31 | 2.61 | -2.24 | 2.26 | -134. | 136. |
| 1/20 | -3.42E-03 | -6.94 | 7.86 | -6.73 | 6.81 | -135. | 136. |
| 1/15 | -4.57E-03 | -9.27 | 10.5 | -8.99 | 9.09 | -135. | 136. |
| 1/10 | -6.85E-03 | -13.9 | 15.7 | -13.5 | 13.6 | -135. | 136. |

Table Q-1803. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (FREDYN, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| FREDYN | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | 1.40E-06 | -1.39E-02 | 1.39E-02 | -1.35E-02 | 1.35E-02 | -0.809 | 0.808 |
| 1/20 | 4.20E-06 | -4.18E-02 | 4.17E-02 | -4.05E-02 | 4.04E-02 | -0.809 | 0.808 |
| 1/15 | 5.61E-06 | -5.57E-02 | 5.57E-02 | -5.39E-02 | 5.39E-02 | -0.809 | 0.808 |
| 1/10 | 8.41E-06 | -8.36E-02 | 8.35E-02 | -8.09E-02 | 8.08E-02 | -0.809 | 0.808 |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1804. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-1, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-1 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1805. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-3, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-3 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1806. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (LAMP-4, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| LAMP-4 | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

TASK 2/DIFFRACTION/MODEL 5613

Table Q–1807. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NFA, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NFA | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | — | — | — | — | — | — | — |
| 1/20 | — | — | — | — | — | — | — |
| 1/15 | — | — | — | — | — | — | — |
| 1/10 | — | — | — | — | — | — | — |

Table Q–1808. Minimum and Maximum of Variables M_z^{dif} and $(M_z^{\text{dif}})^*$ for the Case (NSHIPMO, Task 2, Diffraction, Model 5613 Scaled to L = 154 m, $\beta = 180^\circ$, $F_n = 0.3$)

| NSHIPMO | | | | | | | |
|---------------|------------------------------------|-------------------------------|----------------|-----------------------------|----------------|---------------------------------|----------------|
| (H/λ) | $\langle M_z^{\text{dif}} \rangle$ | Unfiltered M_z^{dif} | | Filtered M_z^{dif} | | Filtered $(M_z^{\text{dif}})^*$ | |
| | Mean (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) | Min. (kN-m) | Max. (kN-m) |
| 1/60 | -3.44E-03 | -0.423 | 0.439 | -3.93E-02 | 3.35E-02 | -2.15 | 2.22 |
| 1/20 | -8.25E-03 | -0.473 | 0.675 | -7.28E-02 | 9.90E-02 | -1.29 | 2.14 |
| 1/15 | 3.89E-03 | -1.32 | 0.631 | -0.134 | 0.127 | -2.07 | 1.85 |
| 1/10 | — | — | — | — | — | — | — |